CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, January 21, 1909.

CONTENTS.

CONSTRUCTION NEWS:
Plans and Specifications on File 17
List of Contracts Pending 17
Railways 17
Electric Railways 18
Light and Power Plants 19
Bridges 19
Building 20
Water Supply and Irrigation 21
Sewers 21
Garbage Disposal 22
Streets and Roads 22
Manufacturing Plants 23
Miscellaneous Contracts 23
U. S. Possessions and Cuba 23
CIVIL SERVICE EXAMINATIONS 23
READERS' WANTS 23
INDUSTRIAL NOTES 23
PROPOSALS 24

CONSTRUCTION NEWS.

Plans and Specifications on File.

(denotes that this work is advertised in Engineering News.)*

The following plans (P.) and Specifications (S.) are on file and may be seen at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.	See Issue.
1-23	*Dredging, Bridgeport, Conn.	(S.)12-24
1-25	*W-Wks., Daytona, Fla.	(P. & S.)12-31
1-30	Elevator, Vallejo, Cal.	(S.) 1- 7
2- 1	Vitrified pipe, Leavenworth, Kan.	(S.) 1- 7
2- 2	*Water-works, Hugo, Okla.	(S.) 1-14
2- 5	*Condenser, etc., Key West, Fla.	(S.) 1- 7
2- 8	*Wire fence, Prescott, Ariz.	(P. & S.) 1- 7
2- 8	Sewers, College Hill, Ohio	(P. & S.) 1-14

List of Contracts Pending.

LIGHT, HEAT AND POWER PLANTS.

1-22 Elec. supplies, Jeffersonville, Ind. 1-21
1-22 Cluster lights, Seattle, Wash. 1-21
2- 3 Power-house, Kansas City, Mo. 1-21
2- 5 Boilers, Saskatoon, Sask. 1-21
2- 5 Lighting, St. Louis, Mo. 1- 7
2- 8 Elec. equip., Columbus Barracks, Ohio 1-21
2-10 Power-house, etc., National Soldiers' Home, Va. 1-21
2-15 Elec. equip., Yukon, Okla. 1-21
2-17 Light plant, Chicago, Ill. 1-21
2-17 Power-house, Milwaukee, Wis. 1-21

BRIDGES.

1-22 Culvert, etc., Cincinnati, Ohio 1-14
1-22 Bridge, Madison, Va. 1-21
1-25 Bridges, Albany, Mo. 1-21
1-25 Bridges, Wayne, Neb. 1-21
1-25 Bridges, Goderich, Ont. 1-14
1-25 Bridge, Port Elgin, Ont. 1-14
1-25 Rebuilding bridge, Ira, Ohio 1-14
1-28 Bridge, Cedar Rapids, Iowa. 1-14
1-29 Bridges, etc., Cincinnati, Ohio 1- 7
1-30 Bridge, Dayton, Ohio. 1-14
1-30* Bridge, Beaufort, N. C. 1- 7
2- 1 Bridge, Topeka, Kan. 1-21
2- 1 Bridge, St. Paul, Minn. 1-21
2- 1 Bridge, Gary, Ind. 1-21
2- 5 Bridge, Cincinnati, Ohio. 1-14
2- 9 Bridge, Lawton, Okla. 1-21
3- 4 Bridges, Paris, Ark. 12-17

BUILDINGS.

1-23 Quarters, etc., Portland, Me. 12-24
1-23 Post-office, Anderson, S. C. 12-24
1-25 School, Washington, D. C. 1-21
1-25 School, Scottdale, Pa. 1-21
1-26 Post-office, Logan, Utah 12-24
1-27* Steel, Ft. Wayne, Ind. (Bldgs.). 1-21
1-28 Church, Bloomington, Ind. 1-14
1-30 Purchase of cement plant, Toronto, Ont. (Mfg. Pl.) 1-14
1-30 Elevator, Vallejo, Cal. 1- 7
1-30 Buildings, New London, Conn. 1- 7
2- 1 Hospital, Los Angeles, Cal. 1- 7
2- 1* Post-office, Fayetteville, Ark. 12-24
2- 1 Machinery, Ashley, Miss (Mfg. Pl.) 1-14
2- 1 Hospital, Regina, Sask. 1-14
2- 3* Buildings, Binghamton, N. Y. 1-21
2- 4* Post-office, San Antonio, Tex. 12-31
2- 8 Post-office, Clarinda, Ia. 1- 7
2- 9 Stable, Ft. Myer, Va. 1-21
2-10* Quarters, New London, Conn. 1-21
2-10 Bank, Philadelphia, Pa. 1-21
2-15 Post-office, Shenandoah, Iowa. 1-14
2-15 School, Grand Rapids, Mich. 1-14
2-15* Quarters, Ft. Dupont, Del. 1-21
2-15* Quarters, Fort Monroe, Va. 1-21
2-16* Coping, Washington, D. C. 1-14
2-17* Post-office, Salisbury, N. C. 1-14
2-18* Post-office, Greenville, Miss. 1-21
2-20 Post-office, Bar Harbor, Me. 1-21
2-23 Post-office, Roanoke, Va. 1-21
3- 1 Machinery, Maxton, N. C. (Mfg. Pl.) 1-21

WATER-WORKS.

1-22 Water-mains, Seattle, Wash. 1-21
1-22 Pumps, etc., Baldwin, Kan. 1-21
1-25 Water main impvt., Donovan, Ill. 1-21
1-25 Water pipe, Sacramento, Cal. 1-21
1-25* Water-works, Daytona, Fla. 12-31
1-25 Water-works impvt., Carlyle, Ill. 1-21
2- 1 Well, Denison, Iowa. 12-31
2- 1* Water plant, Saltsburg, Pa. 1-14
2- 2* Pumps, etc., Anadarko, Okla. 1-21
2- 2* Water-works, Hugo, Okla. 1-14
2- 2 Pumping engine, Kenosha, Wis. 1-14
2- 2 Pump, Richland Center, Wis. 1- 7
2- 3 Pumping station, Minot, N. Dak. 1-21
2- 5 Condenser, Key West, Fla. 1- 7
2-15 Reservoir, New Ulm, Minn. 1-21
2-15 Water-works, Sebree, Ky. 1-21
2-22* Pump, Winnipeg, Man. 12- 3
3-15 Water-works, Wichita, Kan. 1-21

SEWERS.

1-21 Sewers, Parkersburg, W. Va. 1-21
1-22 Sewer, Two Rivers, Wis. 1-21
1-22 Sewer, Portsmouth, Ohio. 1-21
1-22 Sewer, Louisville, Ky. 1- 7
1-25 Sewers, Purcell, Okla. 1-14
1-25 Sewer system, Park Station, Tenn. 1-21
1-25 Sewers, Youngstown, Ohio. 1-21
1-27 Sewer, San Francisco, Cal. 1-21
1-27 Sewers, Brooklyn, N. Y. 1-21
1-28 Sewer pipe, Kingston, Ont. 1-21
1-29* Sewer, Oswego, N. Y. 1-21
2- 1 Sewer, Elizabeth, N. J. 1-21
2- 1 Vitrified pipe, etc., Leavenworth, Kan 1- 7
2- 2* Sewer, Toronto, Ont. 1-21
2- 3 Sewers, Brooklyn, N. Y. 1-21
2- 5 Sewer pipe, etc., Banff, Alta. 1-14
2- 8 Sewers, College Hill, Ohio. 1-14
2-15 Sewer, Great Falls, Mont. 1- 7
2-17 Sewers, etc., East St. Louis, Ill. 1-21
3- 8 Sewer, Grundy Center, Iowa. 1- 7

STREETS AND ROADS.

1-22 Street impvt., Cincinnati, Ohio. 12-31
1-22 Paving, etc., Seattle, Wash. 1-21
1-23 Sidewalks, Lorain, Ohio. 1-21
1-25 Grading, Boston, Mass. 1-21
1-25 Macadam, Chatham, Va. 1-21
1-25 Road machinery, North Vancouver, B. C. 12-31
1-26 Grading, etc., Annapolis, Md. 1-14
1-26 Macadam, Nottoway, Va. 1-21
1-30 Grading, etc., Cleveland, Ohio. 1-21
2- 1* Pavement, Olympia, Wash. 1-21
2- 1 Grading, etc., Delphi, Ind. 1-21
2- 1 Sidewalk, Elizabeth, N. J. 1-21
2- 1 Road, Fowler, Ind. 1-14
2- 1 Roads, Greenfield, Ind. 1-14
2- 1 Paving, Appleton, Wis. 12-24
2- 1* Pavement, Olympia, Wash. 12-24
2- 2 Roads, Crawfordsville, Ind. 1-14
2- 2 Roads, Vincennes, Ind. 1-14
2- 3 Roads, Kokomo, Ind. 1-14
2- 3 Regulating, etc., Brooklyn, N. Y. 1-21
2- 3 Grading, etc., Cleveland, Ohio. 1- 7
2- 4 Roads, Frankfort, Ind. 1-21
2- 5 Paving, St. Louis, Mo. 1-21
2-10 Paving, Fond du Lac, Wis. 1-21
2-12 Road, Fowler, Ind. 1- 7
2-15* Concrete walks, Whipple Barracks, Ariz. 1-21
2-18 Road, Spencer, Ind. 1-14

MISCELLANEOUS.

At once. Railway, Gilmore & Pittsburg Ry. 1-21
1-23* Dredging, Bridgeport, Conn. 12-24
1-25 Cement, Plymouth, Mass. 1- 7
1-25 Supplies, Panama 1-14
1-25 Repairing pier, Philadelphia, Pa. 1-21
1-25 Driving tunnel, Shamokin, Pa. 1-21
1-25 Garbage, Ashland, Ohio 1-21
1-26 Ry materials, Panama 1-21
1-26 Supplies, Panama 1-14
1-27 Ditches, Crookston, Minn. 1-14
1-29 Cement, Ottawa, Ont. 1- 7
1-30 Drainage, Velasco, Tex. 1-21
2- 1 Supplies, Panama 1-21
2- 1 Borings, Phila., Pa. 1-21
2- 1 Culvert, Marshalltown, Iowa. 1-21
2- 1 Canals and levees, Fayette, Miss. 1-21
2- 1 Ditch, Sioux City, Iowa. 1-14
2- 1 Dredging, Philadelphia, Pa. 1-21
2- 6* Removing wrecks, Boston, Mass. 1-14
2- 6* Ditches, levees, Atkinson, Ill. 1-14
2- 8* Fence, Prescott, Ariz. 1- 7
2- 8 Supplies, Panama 1-21
2- 9 Broken stone, New York. 1-21
2- 9 Ponton wagons, Wash., D. C. 1-21
2-10 Sale of steamer, Wash., D. C. 1-21
2-10 Ditch, Logan, Ia. 1- 7
2-11 Wooden pontoons, Mobile, Ala. 1-21
2-12* Pier, dredging, Milwaukee, Wis. 1-21
2-13 Drydock, Hawaii 12-17
2-15 Monument, Indianapolis, Ind. 1-14
2-16* Repairing pier, Frankfort, Mich. 1-21

FOREIGN.

1-24 Electric railway, Russia 12-31
2-15 Electric railway, Algeria 12-31
3- 1 Floating dock, Egypt 12-31

CIVIL SERVICE.

1-23 Gas meter Inspect., New York. 12-31
1-23 Draftsman, Albany, N. Y. 12-31
1-25 Bacteriologist, New York, N. Y. 12-31
2- 3 Inspector Hulls, Galveston, Tex. 1- 7
2- 3 Civil & Hyd. Engr., Wash., D. C. 1- 7
2- 3 Supt. Construction, Washington, D. C. 1-21
2-17 Engr., Fort Berthold, N. D. 1-21
2-24 Scientific Asst., Wash., D. C. 1-21
2-24 Laboratory aid, Columbia, Mo. 1-21

RAILWAYS.

ABITIBI & HUDSON BAY.—The company will apply at the next session of the Canadian Parliament for an extension of time to build a line from the Grand Trunk Pacific Ry. between Frederick House River and Abitibi Lake, Ont., to James Bay, between Albany River, Ont., and East Main River, Que. H. Fisher, Ottawa, is Solicitor for the company.

ALGOMA CENTRAL & HUDSON BAY.—We are officially advised that surveys have been made for an extension from Pangissin, Mile 70, the present terminal. The line will be completed to Mile 170, and extended from Mile 163 to Canadian Pacific Ry., from C. P. R. to Grand Trunk Pacific, and from G. T. P. to James Bay, 440 miles. No contracts have been let on the proposed new work yet. C. N. Coulson is Ch. Engr., Sault Ste. Marie, Ont.

BELMONT CENTRAL.—A railroad is now being constructed, under this title, from a point one-half mile west of Laferty station on the C., L. & W. division of the B. & O., 23 miles west of Bridgeport, Ohio, to Belmont station on the Central Ohio division of the B. & O. The road is being constructed as a coal road. J. Penegrast, Columbus, Ohio, is Gen. Mgr.

EDMONTON & SLAVE LAKE.—Application is made to Parliament for an act extending the time for the commencement of construction for this company. Geo. F. Macdonnell, Toronto, Ont., is Attorney for the applicants.

ENID, OCHILTREE & WESTERN.—We are officially informed that surveys are completed for this proposed railway. It is to run from Ochiltree to Dalhart, Tex., 110 miles. Capital is ready for construction and right-of-way is secured. Contracts will be let about March 1. Geo. M. Perry is Pres., Ochiltree; H. H. Rogers is Ch. Engr., Dalhart.

FARMERS' R. R. OF SASKATCHEWAN.—Application is being made to the Provincial Parliament by D. W. Hines, Regina, Sask., for a charter for this company, which proposes to build a network of lines in Saskatchewan.

FULTON CHAIN & BEAVER RIVER.—Incorporated in New York with $90,000 capital stock to build from Fulton Chain, on the Mohawk & Malone Ry., west to Otter Lake, nine miles. The road is to be operated by steam or electric power. The route is entirely within the Adirondack Park "Blue Line" and it is probable that no company will be allowed to build a road within these limits, it is said, unless it is operated by electricity or oil-burning locomotives. The Directors of the new company are Lyon De Camp, of Fulton Chain; W. L. Marcy, H. W. Sprague and W. M. Wheeler, of Buffalo, and R. J. Gaffney, of Bradford, Pa. The road is to be constructed to open up a tract of 60,000 acres of hardwood forest in Herkimer and Lewis Counties, recently purchased by R. J. Gaffney and to afford railroad facilities to an industrial town to be located near Otter Lake, with sawmills, stave and heading works, veneer plant, hub works and wood alcohol and other chemical plants.

GILMORE & PITTSBURG.—Bids are asked by the Gilmore & Pittsburg Railroad Co., Ltd., at its general offices, 1208 Machesney Bldg., Pittsburg, Pa., for the construction of about 120 miles of standard-gage steam railroad in Montana and Idaho during 1909. Contracts will be let at once on portions of the heavier work, including a 750-ft. tunnel. Specifications for this work can be obtained at the office of the chief engineer, T. H. Bacon, at the above address after Jan. 22, 1909. All bidders must be prepared to install on work before March 1, 1909. Any additional information required can be obtained at the office of the company. W. A. McCutcheon is Pres. Estimated cost of work, $3,000,000.

GRAND TRUNK PACIFIC. — Projected lines that will be built are stated to be as follows: From Melville, near Yorkton, Sask., to Regina, and from Brandon, Man., to Regina, to be started during this year, without fail. What is generally termed the Yorkton branch is really the Melville branch. It starts from a point 40 miles from Yorkton, at Melville, and runs across the Qu Appelle Valley to Regina. Surveys for this line have already been completed, and it will be one of the first branches completed. A line from Brandon to Regina is another project which will be started as early as possible in the spring and rushed to completion. The branch running from Regina south to the international boundary line is chartered to a point at or near North Portal. Also a branch line in Saskatchewan from Watrous to Prince Albert. From Battleford to Biggar, Sask. From Wainwright to Calgary, Alta.

GREENVILLE & KNOXVILLE.—Surveys have been made and capital for construction secured for the proposed four-mile extension of the Greenville — Knoxville Ry., from Cleveland, S. C., north to River Falls, S. C. Date for letting contracts has not been set. W. H. Patterson, Atlanta, Ga., is pres.; J. N. Johnson, Marietta, S. C., is Ch. Engr. Noted on Dec. 24.

KETTLE RIVER VALLEY.—This company has applied to the Canadian Parliament for permission to build a line from Penticton, B. C., on Okanagan Lake, to Nicola, on the Nicola, Kamwops & Similkameen. The Canadian Government at its last session granted a subsidy for the construction of a line between these points not to exceed 100 miles.

MIDLAND OF MANITOBA.—It is announced that both the Great Northern Ry. and Northern Pacific Ry. will operate in Manitoba under the charter of this company. The company has also applied for permission to build a line from Portage la Prairie westerly to Elkhorn, Man., on the Saskatchewan boundary. This line will connect with the lines of the subsidiary companies of the Great Northern which tap the trunk system south of the international boundary. James Fisker, Winnipeg, is attorney for the company. It is stated that the line between Winnipeg and St. Paul will be in operation this year.

OHIO.—The Board of Service of Columbus, Ohio, has awarded contract in connection with elimination of grade crossings, for stonework and approaches to the Mound St. viaduct over the Hocking Valley Ry. and the Toledo & Ohio Central Ry. tracks, to the YAWGER STONE CO., Fair Bldg., Indianapolis, at $87,891.

PANAMA.—Bids are asked until 10.30 a. m., Jan. 26, at the office of the Isthmian Canal Commission, Washington, D. C., under Circular 489, for a large quantity of railway material, as follows: 7,200 gross tons 70-lb. steel rails; 35,300 angle bars; 244,000 tie plates; 55,000 lbs. track bolts; 600,000 lbs. track spikes; 3,000 standard rail braces. 300 rigid frogs; 200 standard split switches; 204 low target switchstands; 88 sets switchties; 200,000 cross ties, cypress, fir or redwood; 8,000 creosoted cross-ties.

PENNSYLVANIA R. R.—Company is in the market, it is stated, for 5,000 steel cars at estimated cost of $1,000 each.

QUEBEC, MONTREAL & SOUTHERN.—We are officially informed that location surveys have been made for an extension from Ste. Philomene, Que., east to Quebec bridge, 41 miles, but that contracts will not be let until the completion of the Quebec bridge is an assured fact. It is stated that surveys also have been made for extensions to Levis, an additional seven miles; also for a branch from Becaucourt to St. Lawrence River, four miles. F. D. Anthony is Ch. Engr., Montreal, Can. Noted on Dec. 31.

ST. LOUIS SOUTHWESTERN.—This company, according to Boston "Transcript," is "planning to spend $1,000,000 rock ballasting its tracks, rebuilding bridges between Memphis and points in Texas, and otherwise improving the roadbed. It is the intention of the management not only to bring the road up to the standard of the best lines in the South, but that new trains will be placed in service between St. Louis, Memphis and Texas. Where bridges are reconstructed, fireproof material will be used, and will be so filled in that further washouts will be impossible. The tracks for stretches in several instances will be laid with new steel." M. L. Lynch is Ch. Engr., Tyler, Tex.

SASKATCHEWAN CENTRAL.—Balfour, Martin & Casey, Regina, Sask., are attorneys for a company seeking a charter under this title, which proposes to build five branch lines in Saskatchewan over 1,000 miles in length.

SHAWNEE CENTRAL.—Company plans to begin construction this year. Survey has been made from Shawnee to Muskogee, Okla., and survey will be completed this coming summer from Shawnee to Lawton, Okla. F. H. Peckham is Ch. Engr. J. M. Aydelotte is Pres.; J. W. Rubey, Vice-Pres., and S. J. Roys, Secy., Shawnee, Okla.

STAUNTON RIVER R. R.—Chartered in Virginia to build a line about seven miles long, from Pittsville to Brights, Va. Capital, $10,000 to $25,000. The incorporators are J. H. C. Barr, of Philadelphia, Pa., Pres.; W. D. Parker, of Pittsville, Va., Vice-Pres.; S. A. Lee, of Toshes, Va., Secy. and Treas.

UNION PACIFIC.—Contract for building the Grays Harbor branch line has been awarded to CAUGHREN, WINTER, SMITH & CO., of Spokane, Wash. Contract does not include the construction of the bridge across the Chehalis River.

YELLOWHEAD PASS COAL & RY. CO.—Application is to be made by this company to the Canadian Parliament for incorporation. The company plans to build a line from the Grand Trunk Pacific main line, west of Pembina Crossing, Alta., southwesterly to the Embarras River, thence southerly to the headwaters of the Little Pembina River, about 100 miles; and from the Grand Trunk Pacific main line along the Embarras River, southwesterly to the McLeod River, about 25 miles. J. A. Ritchie, of Ottawa, Ont., is the Solicitor.

ELECTRIC RAILWAYS.

WATERBURY, CONN.—Construction work on the Waterbury & Millidale Tramway line between Waterbury and Millidale, eight miles, probably will be commenced this year. Chas. H. Clark is Pres., Millidale; John H. Cassidy, 95 Bank St., Waterbury, is Secy.

LEBANON, PA.—We are officially advised that the Lebanon & Southern St. Ry. Co., which was recently organized to build a railway from Campbelltown to Schaefferstown and Klienfeltersville, Pa., is not ready yet to award contracts. J. M. Shenk, Lebanon, is Pres.

DONORA, PA.—The Donora & Eldora St. Ry. Co., it is announced, has sold its right-of-way, etc., to the Pittsburg, McKeesport & Westmoreland Ry. Co. As noted on Nov. 12, contract for building the Donora & Eldora St. Ry. "has been awarded to FRANK DONATELLA, Pittsburg. It will run from Donora to Eldora, Monongahela City, Charleroi, Monnessen, Webster and West Newton, Pa., about four miles. Capital stock, authorized and issued, $150,000. Officers: B. M. Hanna, Pittsburg, Pa., Pres.; Wm. M. Galbraith, Frick Bldg., Pittsburg, Vice-Pres.; R. W. Hervey, Monongahela, Pa., Secy. and Treas.; Gisli Gudmundson, Empire Bldg., Pittsburg, Ch. Engr." Noted on Aug. 27 and Feb. 6, 1908.

At a meeting held last week by the stockholders of the Pittsburg, McKeesport & Westmoreland St. Ry. Co. it was decided to construct a new street car line from Herminie to West Newton. The contract is to be let in a few weeks. It was also decided to take over the lines running from McKeesport to Irwin, which are now in the hands of a receiver. The following officers were elected for the year: Pres., Manning Stiers, of New York; Vice-Pres., J. J. Robertson, of West Newton; Secy., R. W. Hervey, of Monongahela City; Treas., H. D. Lyon, of Pittsburg. Directors: Andrew Peck, of Brooklyn; George Baehr and J. A. Beattie, of McKeesport; Dr. L. V. Sutton, of West Newton; Judge W. M. Lindsay, of Warren, Pa.

COLUMBIA, PA.—We are officially informed that the Columbia & Manor St. Ry. Co. has made surveys and secured right-of-way for its proposed 14-mile line which connects Columbia and Millersburg. Capital is partly secured. Henry Wertz, Washington Boro., is Pres.; H. M. H. Alderman, Lancaster, Pa., Vice Pres.; H. K. Hershey, Lancaster, Pa., Secy. and Treas.; J. B. McDivitt, Safe Harbor, Pa., Ch. Engr. Capital stock, authorized, $225,000.

CLARION, PA.—The Borough Council has granted a franchise to the Clarion & East Brady Elec. Ry. Co., which has been organized to build an electric line connecting Clarion, Sligo, Rimersburg and East Brady. It will be about 25 miles long. G. E. Arnold, F. M. Arnold and T. S. Arnold, of Clarion, are named as the promoters.

WESTON, W. VA.—Dr. George I. Keener, of Weston, has been granted a franchise by the court to build an electric railway from Weston to Bendale, W. Va., three miles.

WAYNESVILLE, N. C.—The South Atlantic & Transcontinental R. R. Co. is reported to have begun survey for its proposed line. The company, promoted by S. A. Jones, of Waynesville, plans to build an electric railway to connect Greenville, S. C., via Waynesville, N. C., with Knoxville, Tenn., and to build a branch from Waynesville to Hendersonville and Asheville, N. C.

LEBANON, OHIO.—We are officially informed that the Miami Transit, Light & Power Co., which plans to construct a railway between Xenia and Lebanon, via Waynesville, 25 miles, has made preliminary survey. Right-of-way is secured for greater part of the distance. Capital is not yet obtained. Date for letting contracts is not fixed. Chas. A. Hough, Pres., Lebanon; M. D. Burke, 18 East Fourth St., Cincinnati, is Ch. Engr. Previously noted.

CLEVELAND, OHIO.—The Cleveland, Brooklyn & Elyria Ry. Co. plans to build an overhead trolley line which will connect Zanesville, Coshocton, Millersburg, Orrville, Barberton and Elyria with Cleveland. J. J. Breitinger is Pres., 319 Citizens Bldg., Cleveland; J. H. Knisely, Jr., Secy., Cleveland.

MANSFIELD, OHIO. — The Massillon, Wooster & Mansfield Traction Co. may begin construction on its line this summer. It will connect Mansfield, Wooster, Massillon and Akron, and other places. G. A. Bartholomew, Williamson Bldg., Cleveland, is Pres. and Ch. Engr.; J. W. Buchanan, Smithville, Vice-Pres.; Roy I. Guthman, Youngstown, Secy.; H. G. Bye, Youngstown, Treas.

BROWNSTOWN, IND.—The Brownstown Water, Light & Traction Co. proposes to commence construction about March 1. The line will be about 70 miles long and will connect Brownstown, Seymour, Vallonia, Faoli, West Baden and French Lick. Surveys are made. W. B. Holton is Pres. and Gen. Mgr., Indianapolis; J. B. Thompson is Vice-Pres., Seymour, Ind.; H. Jackson is Secy., Seymour. Noted on Dec. 17 and 24.

DECATUR, IND.—W. H. Fledderjohan, Pres. of the Fort Wayne & Springfield Ry. Co., Decatur, advises us that company is doing its own construction work and that grading is over half completed between Decatur and Berne, twelve miles. Surveys are made and right-of-way and capital are secured. A. N. Fishbaugh is Ch. Engr., Celina, Ohio.

DETROIT, MICH.—The Michigan Central R. R. Co., according to press reports, has decided upon important changes in operation of its line, "involving the electrification of its terminals here and of the main line as far west as Ypsilanti, which is 30 miles from Detroit. It is planned to abolish local trains and use large electric cars for local business, having the steam trains stop only at the large cities. Electric power will be generated by a large water-power plant to be constructed in the Huron River at Chelsea, Mich." G. H. West is Ch. Engr., Detroit.

BLUE ISLAND, ILL.—The Chicago, Blue Island & Joliet Traction Co. will build an electric railway between Blue Island and Oak Forest, four miles. W. H. Conrad, Blue Island, is interested.

WATERTOWN, ILL.—The Tri-City & Northeastern Interurban Ry. Co. has applied, for a charter. Company proposes to build and operate a line from Watertown to Albany. Capital stock, $10,000. Incorporators: George W. Turner, L. F. Baker, of Hampton; William H. Adams and F. M. Mitchell, of Rapids City; J. W. Simonson and William Ashdown, of Port Byron; Edward Cool and George Bryan, of Cordova; C. E. Peck and J. S. Byers, of Albany, all in Illinois; J. W. Crowley, Daniel E. Keeler, Gust. M. Hodges, John E. Mahon and Herman Diehn, of Davenport, Iowa.

KENOSHA, WIS.—The Chicago, Kenosha & Milwaukee Elec. Ry. has applied to the Wisconsin State Railroad Commission for permission to build an electric railway from Kenosha to the state line. The company has secured the necessary capital and will issue $1,500,000 of bonds as soon as construction commences. Company owns its right-of-way. The line will pass through Zion City and other north shore towns. George G. Wilcox is Pres.; Volney Foster, Jr., Vice-Pres.; Frank R. Grover, 79 Dearborn St., Chicago, Ill. Secy. and Treas.

BOONE, IOWA.—Surveys are being made by Boone, Webster City & Interurban Ry. Co. The line will be built from Boone to Stratford and Webster City. Right-of-way is secured. E. E. Hughes is Pres., and John S. Crooks is Secy., Boone.

WATERLOO, IOWA.—The Iowa R. R. Co., it is announced, will let construction contracts this spring for building its proposed railroad. It will be about 130 miles long. The Iowa R. R. Co. was incorporated on April 13, 1908, with a capital stock of $100,000. It will connect the following cities: Waterloo, Cedar Falls, Fredsville, Dike, Lincoln, Grundy Center, Eldora, Hubbard, Garden City, Story City, Ames, Kelley, Huxley, Ankeny and Des Moines. From Story City a branch will run to Boone, Moingona and Perry. Company will use the overhead trolley system. The power plant and repair shops will be located at Eldora. The railroad company will furnish power for lighting towns along the route. The officers of the company are as follows: Henry S. Osborne, 1402 Ashland Bank, Chicago, Ill., Pres.; Andrew Stevenson, 1211 Association Bldg., Chicago, Ill., First Vice-Pres. and Gen. Mgr.; James F. Hardin, Eldora, Second Vice-Pres. and Treas.; L. W. Harris, Eldora, Secy.; George Welsby Scott, Security Bldg., Chicago, Ill., is Ch. Engr. The incorporation of this company was noted on April 23, 1908.

BILLINGS, MONT.—The Billings & Cooke City Ry. Co. will resume construction this spring. Surveys are under way. The line will run from Billings to Cooke City passing through Laurel, Joliet, Dean and Nye, 110 miles. Power for the operation of the road will be rented from the Madison River Power Co. An amusement park may be established and operated by the company near Billings. Capital stock, authorized, $2,000,000; issued, $5,000. Edward Horskey, Helena, Mont., is Pres.; Edward Estep, Billings, Vice-Pres.; George H. Savage, Billings, Secy. and Gen. Mgr.; Bert Shorey, Billings, Treas.; R. E. Leslie, Helena, is Ch. Engr. Noted fully on Oct. 8 and Sept. 17, 1908.

EL DORADO SPRINGS, MO.—The El Dorado Springs, Tiffin, Monegaw & Lowry City R. R. Co. will build a power plant on the Osage River. Construction work on this electric railroad probably will commence in the spring. It will run from El Dorado Springs to Tiffin, Oyer, Monegaw Springs, Chalklevel and Lowry City, Mo., 30 miles. The repair shops will be built at El Dorado Springs. Dr. C. A. Edgar, El Dorado Springs, Mo., is Pres.; J. W. Kennerly, Tiffin, Mo., Vice-Pres.; J. S. Harrison, Tiffin, Secy. and Gen. Mgr.; J. W. Reeder, El Dorado Springs, Treas.

ENID, OKLA.—Hamlin Sawyer, Enid, Okla., who recently applied to the City Council for a franchise to build an electric railway in Enid, and east from Enid to Breckenridge, Garber, Cropper and Billings, advises us that work is progressing. The company will be known as the Enid Interurban Co.

WALLA WALLA, WASH.—The Walla Walla & Columbia Traction Co., according to Pres. N. G. Blalock, of Walla Walla, will begin construction about Feb. 1, as surveys are made and right-of-way and capital secured. The railway will connect Dayton, Huntsville, Waitsburg, Prescott, Walla Walla, Milton, Freewater, Touchet and Wallua, with 80 miles of standard gage single track. Overhead trolley construction will be used. A power station will be built on the Tucanon River. Connections for the transportation of freight will be made at Wallula with the Open River Transportation Co., which operates steamers on the Columbia River between several important cities. Capital stock, $1,000,000. Headquarters, Walla Walla. M. R. Hauger, Dayton, is First Vice-Pres.; H. H. McLean, Walla Walla, Second Vice-Pres.; L. C. Davison, Walla Walla, Secy.; George Kellogh, Walla Walla, Treas. Noted (under old name of Farmers' Traction Co.) on Dec. 10, 1908.

TOOELE, UTAH.—The Tooele Valley Railway Co. has been incorporated to build 25 miles of electric line in Tooele County, from Black Rock into Pine canyon, through to a connection with the San Pedro, Los Angeles & Salt Lake Ry. A general office will be opened in Salt Lake City. Among those interested are C. F. Kelly, of Butte, Mont.; J. B. Risque, of Salt Lake City, and others.

MONCTON, N. B.—The municipality of Moncton will apply at the coming legislature for power to construct and operate an electric street railway in the city of Moncton and in the parishes of Moncton and Shediac, to lease such railway and to grant the right to construct and operate such street railway to any other person or persons upon such terms as shall be approved of by the City Council from time to time and to generate, use, sell or supply electricity for the purposes of such street railway. John S. McGee is City Clerk.

CALGARY, ALTA.—Engineers' estimates show that the municipal electric street railway system to be constructed here this spring will cost $478,000.

WINNIPEG, MAN.—The City Council has decided to consider the proposition of allowing the Winnipeg Elec. Ry. Co. to sell out its interests here. The street railway, light and power plants are estimated to be worth from $15,000,000 to $20,000,000. W. Whyte is Vice-Pres., and W. Phillips is Gen. Mgr. and Ch. Engr., Winnipeg. Company operates 75 miles of line.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

BRATTLEBORO, VT.—Preparations are being made by the Estey Organ Co., it is stated, to equip its plant to be operated by electrical power, which will be furnished by the Connecticut River Power Co.'s plant when completed. A sub-station will be erected at the organ company's factory, to which electricity will be transmitted at 10,000 volts. The station will be equipped with three transformers and a high-tension switchboard. The organ plant will be equipped with 60 motors, aggregating 400 HP., ranging from ¼ HP. to 75 HP. The motors will be furnished by the CROCKER-WHEELER CO., of Ampere, N. J.

HAVERHILL, MASS.—The New Hampshire Electric Railways, of Haverhill, has under consideration the erection of a power plant. The place selected is located on Pelham St., Methuen, Mass. Franklin Woodman is Gen. Mgr., Haverhill.

WADDINGTON, N. Y.—The Public Service Commission has authorized the New York & Ontario Power Co. to issue capital stock to the amount of $600,000, and bonds to the par value of $1,850,000. The company is developing an important water power project on the St. Lawrence River at Waddington, St. Lawrence County. The company expects to develop at a moderate expense about 30,000 HP. with 24-hour service, 365 days in the year, not subject to diminution by low water in summer or ice in winter. At the present time it is proposed to develop and equip approximately 17,000 HP.

JAMESTOWN, N. Y.—It is reported that plans are being considered for the installation of a 500-KW. steam turbine in the municipal electric light plant. Charles G. Sundquist is Mgr.

PITTSBURG, PA.—We are officially advised that the Pan Handle Electric Co., of Pittsburg, has been incorporated with a capital of $80,000 to construct an electric light plant. Those interested are: Joseph Bryan, S. M. Dunbar and J. L. Merrill, of Pittsburg, Pa.; H. R. Randolph, Suter Station, Pa., and Armor S. Cooper, of New Cumberland, W. Va.

NATIONAL SOLDIERS' HOME, VA.—Bids are asked until 1.30 p. m., Feb. 10, by John T. Hume, Treas. Southern Branch, N. H. D. V. S., for material and labor for power-house and equipment, tunnels and equipment, commissary storehouse and ice plant, shops with sleeping rooms.

PORTSMOUTH, VA.—The City Council is considering the question of installing a municipal electric light plant, the cost of which is estimated at $75,000. The Council also contemplates advertising for bids for a franchise to install and operate an electric light plant in the city. The contract for street lighting with the Norfolk & Portsmouth Traction Company expires within a few months. Bascom Sykes is City Engr.

RICHMOND, VA.—The Virginia Passenger & Power Co. is planning to make additions and improvements to its plant, which will include the installation of a 900-KW. and a 750-KW. alternator, a 4,000-KW. steam turbo-generator set, two 1,500-HP. water wheels and an 1,800-HP. boiler. G. H. Whitfield is Gen. Supt. of Light and Power Dept.

*FORT MONROE, VA.—Bids were opened in the office of Capt. Ernest R. Tilston, Constr. Q. M., at Fort Monroe, on Jan. 4, for the construction of an underground conduit electrical plant for Fort Monroe. The entire plant, which will furnish electricity for the artillery school and the fort, will cost about $100,000. It will be installed in the brick building constructed for the purpose in the rear of the artillery school.

The lowest bidders on the several sections of the work are: Conduit and electrical, Crook, Kries & Co., 227 West Saratoga St., Baltimore, $44,450. Piping, Malcolm W. Hill Co., 1503 Sansom St., Philadelphia, $10,440. Boilers, Heine Boiler Co., Philadelphia, $9,680. Dynamos, McCay Engineering Co., 9 East Lexington St., Baltimore, $7,925.

ASHEVILLE, N. C.—The Asheville Electric Co. will expend $130,000 in improvements and extensions during the year, including new station, equipment, etc. Frank K. Wade is Engr.-in-Charge.

AUGUSTA, GA.—The Twin City Power Co., 10 Bridge St., New York, has plans for dam on file and construction will begin as soon as the Government approves plans. The dam is to be of steel with concrete, 60 ft. high from mean low water, capable of generating 48,000 HP., including primary and secondary power. It will cost about $3,000,000, and will require about a year and a half to complete. The AMBURSEN HYDRAULIC CONSTRUCTION CO., 176 Federal St., Boston, Mass., has the contract for construction, according to the "Manufacturers' Record." Thomas O'Connor, 54 Broad St., Waterford, N. Y., is Pres. of Twin City Power Co.

MEMPHIS, TENN. — The Merchants' Power Co. will build an annex to main power plant, to be used as an auxiliary engine-room containing a turbine engine of 1,500 HP. Cost, $50,000. G. W. Highland is Supt., Memphis.

LIMA, OHIO.—Final plans and estimates for the construction of a municipal electric light plant have been submitted to the Board of Public Service by C. E. F. Ahlm, Claxton Bldg., Cleveland, Ohio, in compliance with the order of the court for an operative plant. According to the plans submitted the plant will cost $76,873, guaranteeing street arc lamps at $38.54 per year and to furnish electricity for commercial lighting at 2½ cents per KW.-hour.

COLUMBUS BARRACKS (Columbus postoffice), Ohio.—Bids are asked until 10 a. m., Feb. 8, by Capt. H. J. Hirsch, Constr. Q. M., for furnishing and installing transformer, etc., and making underground electric service connections to new post hospital, new bakery, disinfecting plant, and new hospital corps sergeants' quarters at this post.

JEFFERSONVILLE, IND.—Bids will be received until Jan. 22 at the General Depot, Quartermaster's Dept., Jeffersonville, Ind., for electrical supplies, etc., required for replenishment of stock, as per schedule, which will be furnished on application at this depot.

FOWLER, IND.—The Fowler Utilities Co. contemplates the installation of an engine and generator, direct connected, meters, transformers, overhead material, electric drive for deep well pumps, boiler settings and switchboard. R. J. Chapman is Mgr.

FLINT, MICH.—The Eastern Michigan Power Co. has given notice that petitions will be presented to the Boards of Supervisors of Iosco and Alcona Counties at their next meeting for permission to construct dams across the Au Sable River for the purpose of obtaining power, according to press reports. The dams will be of approximate height hereinafter mentioned, measuring from the present to normal level of water: Rogers Bank Dam, 34 ft. and not more than 36. Cooke Dam, 35 ft. and not more than 38. Five Channels Dam, 34 ft. and not more than 36. Lower Blue Joe Dam, 50 ft. and not more than 52. Loud Dam, 28 ft. and not more than 30. Number Six Dam, 23 ft. and not more than 25. Thompson Dam, 25 ft. and not more than 28. Wells Dam, 25 ft. and not more than 27. Bamfield dam, 37 ft. and not more than 39. Flat Rock Dam, 29 ft. and not more than 31. The dams will consist of a masonry portion constructed of stone or concrete and steel, or partly of both, and connected with banks by earthwork embankments. The masonry portion will contain spillways or waste gates having a cross sectional area of at least 480 sq. ft. There will be constructed at each dam a standard fish-shute according to the specifications of the Michigan Fish Commission.

s will be con- it the running n Dec. 24, '13 the Au Sable f the State at tern Michigan erated a 30- n Council to s planned to nt, and cities scola, Chi- counties will he new com- Flint Light & nise granted e new fran- f the Flint

n prepared of the Econ- ng by elec- Joliet; also phone and the streets.

Power Co. om $1,000,- proposes lectric and een. Supt.

until Feb. for erect- plant, to must com-

Springfield ct contract GENERAL ELEC- at $15,- er to the ERY CO., at $15,000. George Mgr.

has decided to secure the services of an expert to make investigations and decide upon the feasibility of operating a municipal electric light plant in connection with the water-works system. The cost of the plant is estimated at $15,000. George Bradish is City Engr.

MILWAUKEE, WIS.—Bids are asked by the Board of Public Works until Feb. 17 for furnishing and erecting complete in building and foundations to be furnished by the city of Milwaukee all the machinery and appurtenances necessary for the complete installation of a gas-producer and gas-engine electric lighting plant. The work is to be completed within ten months from date of contract. August M. Gawin is Comptroller.

CRIVITZ, WIS.—The Northern Hydro Co., of Green Bay, Wis., has perfected its plans for developing power at High Falls on the Peshtigo River about 15 miles from Crivitz. The actual work of construction is to start next spring. The plan of constructing a canal between High Falls and Johnson Falls has been abandoned. Instead the company will build a wall one mile long for the purpose of creating a reservoir. The wall will extend across the river at High Falls and back into the country until it reaches the high land. It will be of concrete. The estimated cost of the entire undertaking is $2,000,000, and it will take two years to complete the work. The power will be transmitted to Green Bay to run the street cars and to light that district. It is expected that over 5,000 HP. will be developed. The contract for constructing the dam has been let to the BATES & ROGERS CONSTRUCTION CO., 355 Dearborn St., Chicago, Ill. D. W. Mead, of Madison, Wis., is Ch. Engr.

GREENE, IOWA.—The Greene Electric Light & Power Co. has constructed a dam on the property purchased from the Greene Mfg. Co. and is planning to connect its electric plant with the water-power plant this year. The company proposes to erect a power-house, which will be equipped with a water-wheel, a 150-KW. generator and switchboard. A day service will be established when the plant is completed. R. Miner is Secy.

KANSAS CITY, MO.—Bids are asked at the office of Samuel A. Boyer, County Clerk, Court-House, Kansas City, Mo., until Feb. 3 for the construction of a power and laundry building and smokestack at the Jackson County Home for the Aged and Infirm, at the County Farm near Little Blue. Smith & Rea, are Archs., Dwight Bldg., Kansas City, Mo.

YUKON, OKLA.—Bids are asked until Feb. 15 by the Yukon Mill & Grain Co., Yukon, Okla., for the following machinery: One 18 × 42 girder-type Corliss engine; two 175-HP. water-tube boilers, 175 lbs. pressure; suitable steam separator; steam trap for same; two simplex pumps, either to have capacity sufficient for above boilers; 350-HP. heater.

TERRELL, TEX.—The city will invite bids soon for erection of an electric light plant estimated to cost $15,000. It will be operated in connection with the city water plant. E. R. Miller is Secy.

SPOKANE, WASH.—William A. Nicholls, Pres. of the Big Bend Transit Co., has announced that his company owns water rights on the Spokane River capable of developing 25,000 HP. and that it will commence at once work on construction of an electric plant, starting with 10,000 HP.

SEATTLE, WASH.—The Seattle Electric Co. will erect a power station, terminal and car shops on property at East Jefferson St. and 13th Ave., Seattle. Stone & Webster, 147 Milk St., Boston, Mass., are Gen. Mgrs.; George P. James, Seattle, Wash., is Ch. Engr.

SEATTLE, WASH.—Bids are asked by the Board of Public Works until Jan. 22 for installing cluster lights on Second Ave., etc. Estimated cost, $38,417.

*LETHBRIDGE, ALTA.—Bids are asked until March 1 by George W. Robinson, Secy.-Treas., City Hall, for constructing a municipal power plant here. Smith, Kerry & Chace, Confederation Bldg., Toronto, Ont., are Engrs.

PASADENA, CAL.—C. W. Koiner, Mgr. of the municipal electric light plant, in his report submitted to the City Council recommends the purchase of the distributing system and equipment of the Edison Electric Co. at a fair valuation. The Council is considering plans for increase the output of the municipal plant to furnish electricity for commercial purposes, which will require an expenditure of about $150,000, as follows: For installation of a 750-KW. generating unit in the power house at a cost of $52,000; pole line equipment, extending the system to all parts of the city, making 1,600 additional service connections, to cost about $100,000.

OAKLAND, CAL.—The Seventh St. Improvement Club has awarded the contract for furnishing and erecting 150 electroliers on Seventh St. to the UNITED IRON WORKS, Second and Jefferson Sts., Oakland, at $16,000.

SANDPOINT, IDAHO. — The Spokane "Chronicle" states that the Washington Water Power Co. will expend about $2,000,000 for improvements and development of 60,000 horsepower. About $500,000 will be spent this spring. It is purposed to furnish power to local institutions, the Coeur d'Alene district and others using electric power for all purposes in the towns of Northern Idaho. Arrangements have been completed by J. J. O'Brien, of Chicago, representing Howard, Simmons & Co., First National Bank Bldg., and the H. H. Byllesby Co., 123 Monroe St., both of Chicago, whereby the Pend Oreille Electric Co. will be taken over by the companies mentioned and changes made in the plant. It is estimated that 5,000 HP. will be developed at once.

GLENCOE, ONT.—The eCity Council has awarded the contract for the erection of a gas producer power plant for the municipal electric light plant to the COLONIAL ENGINEERING CO., of Montreal, Que.

TORONTO, ONT.—Hon. Adam Beck, Chn. Hydro-Electric Comn. of Ontario, Confederation Life Bldg., Toronto, has announced that the extension of the contract with F. H. McGUIGAN will be considered and a line from London to Windsor probably determined upon. The present plans call for 293 miles and the extension would be 128 miles, a total of 421 miles.

SASKATOON, SASK.—Bids are asked by J. H. Trusdale, City Clerk, until 5 p. m., Feb. 5, for the supply of 500-HP. boilers in two or three units. E. L. White is Electrical Supt., Saskatoon.

EDMONTON, ALTA.—The City Council has voted $280,000 for improvements and extensions to the electric lighting and waterworks system. R. R. Keely is City Engr.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

CHICOPEE, MASS.—W. J. Fuller, Mayor, in his annual message recommended the construction of a new bridge across the Chicopee River.

WEST SENECA (Buffalo post-office), N. Y.—The Town Board has approved plans of A. Getman, Consult. Engr., for a steel bridge to be built over a branch of the Buffalo River to connect Mineral Spring road and Clinton St. Estimated cost, $30,820.

BUFFALO, N. Y.—The Fort Erie & Buffalo Bridge Co. has been organized at Fort Erie, Ont., to build a low level bridge across the Niagara River, between Fort Erie and the foot of Ferry St., Buffalo, for electric railway and vehicular traffic. Application will be made at the coming session of the Canadian Parliament for an act of incorporation and authority to build. The organization provides for the merging of the company with a similar company to be incorporated in the State of New York.

The Engineering Department of the New York Central & Hudson River R. R. Co., 335 Madison Ave., New York, is receiving estimates for the construction of a concrete and steel viaduct over its tracks at Elk St. here. G. W. Kittredge is Ch. Engr., New York.

PHILADELPHIA, PA.—The City Council has passed an ordinance authorizing construction of a bridge on the line of Roberts Ave. under the Chestnut Hill Branch of the Pennsylvania R. R. Estimated cost, $40,000. George R. Stearns is Dir. Pub. Wks.

PITTSBURG, PA.—The City Council has passed ordinance providing for the sale of $1,000,000 of bonds for the erection of a bridge over the Allegheny River. N. S. Sprague is City Engr.

TOWSON, MD.—Baltimore County will spend about $300,000 during this year for the construction of bridges and roads.

MADISON, VA.—Bids are asked by the State Highway Commission until Jan. 22 for the construction of a steel bridge across the Robinson River about five miles from here, 227 ft. long, 12-ft. roadway. Estimated cost, $4,000. P. St. J. Wilson is State Highway Comr.

WINSTON-SALEM, N. C.—The CAROLINA ENGINEERING CO., Burlington, N. C., has been awarded the contract for constructing a steel bridge over Silas Creek at Burke's Mill.

CHARLOTTE, N. C.—Mecklenburg County is considering the construction of a bridge at Rozelles' Ferry, near here. Estimated cost, $15,000, providing the piers of old bridge are used.

FERGUSON, S. C.—The Santee River Cypress Lumber Co. will construct a bridge over the Santee River near here.

ATLANTA, GA.—The city contemplates the construction of a bridge at Gray St. to connect Jones Ave. with the Exposition Cotton Mills district. An appropriation of $66,000 will probably be made. R. M. Clayton is City Engr.

CARROLLTON, GA.—Peter Williams, of Atlanta, has completed a survey for a bridge over the Chattahoochie River between Carroll and Coweta Counties. Estimated cost, $18,000.

JACKSONVILLE, FLA.—The CONVERSE BRIDGE CO., Chattanooga, Tenn., has been awarded the contract for the Talleyrand steel bridge at about $5,729. D. G. Ackerly is City Clk.

CALHOUN, TENN.—McMinn and Bradley Counties are considering the construction of a bridge over Hiawassee River between Calhoun and Charleston. Estimated cost, $30,000. The viaduct on the McMinn County side will be 500 ft. long and from 5 to 25-ft. high.

CONCORD, TENN.—J. M. JONES, of Knoxville, Tenn., has been awarded the contract for the construction of the bridge over Sinking Creek.

CINCINNATI, OHIO.—The Cincinnati Traction Co., Thomas Elliot, Ch. Engr., will construct a bridge over Eastern Ave.

GARY, IND.—Bids will be received until Feb. 1 by the County Commissioners, Crown Point, for constructing a reinforced-concrete bridge over Calumet River at Broadway, Gary, to consist of three 66-ft. arches with retaining walls, etc., and to be 80 ft. wide. Estimated cost, $37,500. W. F. Bridge is Engr., Hammond, Ind.

INDIANAPOLIS, IND.—The Commissioners of Marion County have sold $100,000 of bridge bonds and bids will soon be asked for the repair of a number of bridges. The County Council is asked for an issue of $400,000 of bonds, the proceeds to be used in building several stone bridges.

RENSSELEAR, IND.—We are officially advised that the ROCHESTER BRIDGE CO., Rochester, Ind., has been awarded the contract by the county for the construction of a 2-span steel bridge, 155 ft. long and 16 ft. wide, across the Kankakee River. Bids were opened on Jan 12. James N. Leatherman is County Audr.

CHICAGO, ILL.—We are officially advised that the FOUNDATION CO., 115 Broadway, New York, has been awarded the contract for the sinking of piers to support the bridge across the Chicago drainage canal at Western Ave., Chicago. This work consists of the sinking of four pneumatic cylinders to rock. The general contractor is JAMES O. HAYWORTH.

MANCHESTER, IOWA.—The Boards of Supervisors of Delaware and Jones Counties have decided to construct a bridge over the Maquoketa River at the meeting point of the two counties.

ST. PAUL, MINN.—Bids, including plans and specifications, will be received until Feb. 1 by George T. Redington, Secy. Bd. Park Comrs., for constructing a reinforced-concrete bridge over the Ravine on Riverside Boulevard, the bridge to be 105 ft. 8 ins. long, 28-ft. roadway and two 6-ft. walks.

TOPEKA, KAN.—Bids, including plans and specifications, will be received by the City Clerk until Feb. 1 for constructing a concrete or steel bridge with concrete floor or with brick or asphalt filled floor, clear roadway to be 20 ft., live load 200 lbs. per sq. ft., height of bridge over low water about 27 ft., depth of water 4 ft., waterway required 2,840 sq. ft.

WICHITA, KAN.—The Board of County Commissioners awarded contracts on Jan. 9 for five bridges. The WICHITA CONSTRUCTION CO., Wichita, secured the contract for erecting a bridge across the Arkansas River on Lawrence Ave. and for a 40-ft. steel bridge on 21st St., at $9,650.

C. E. CARR secured the contract for three bridges in Rockford, Morton and Delano Townships, at $4,950.

NIOBRARA, NEB.—C. H. JONES, of Niobrara, has been awarded the contract for reconstructing the government bridge over Niobrara River at this place.

WAYNE, NEB.—Bids will be received until Jan. 25 by the County Commissioners, Wayne, for constructing new or repairing all bridges in the county for the year 1909. Charles W. Reynolds is County Clk.

ABERDEEN, S. DAK.—The County Commissioners on Jan. 8 awarded the contract for the construction of four bridges to the A. Y. BAYNE CO., of Minneapolis, Minn., at $4,878.

The CENTRAL STATES BRIDGE CO., Indianapolis, Ind., secured the contract for the construction of two bridges at about $4,100.

ALBANY, MO.—Bids will be received by W. A. Henton, County Surv., until 2 p. m., Jan. 25, for the construction of eleven 30-ft. I-beam bridges, six 24-ft. I-beam bridges, one 70-ft span on tubes and one 20-ft. I-beam bridge on legs.

HELENA, ARK.—M. W. Green, County Road Engr., awarded the contract on Jan. 6 for constructing a steel bridge, 104 ft. long and 12 ft. wide, over Stamp Creek, five miles north of Helena, to the JOLIET BRIDGE & IRON CO., of Joliet, Ill.

PRESCOTT, ARK.—The contract for the construction of a bridge across the Little Missouri River has been awarded to the KANSAS CITY BRIDGE CO., Kansas City, Mo., by the Memphis, Paris & Gulf R. R. Co. C. C. Henderson is Gen. Mgr., Nashville, Ark.

GONZALES, TEX.—The County Commissioners have awarded the contract to AUSTIN BROS., of Dallas, Tex., for the construction of an iron bridge over Mule Creek.

LAWTON, OKLA.—Bids will be received by the Board of Commissioners of Comanche County until Feb. 9 for constructing one 75-ft. span steel bridge and one 32-ft. span bridge, with steel stringers. J. M. Haynes is County Clk.

COLORADO SPRINGS, COLO.—The County Commissioners have let the contract for the construction of the new county bridge at Breed Station, across Monument Creek, to C. G. SHEELEY, of 219 McPhee Bldg., Denver, Colo., at $3,000. The bridge will be of steel with cement floor and concrete reinforcements.

EVERETT, WASH.—The City Engineer has been instructed by the Board of Public Works to prepare plans, profiles and estimates for wooden approaches to the new Snohomish bridge.

SAN BERNARDINO, CAL.—The County Engineer has completed plans for the construction of a bridge over Lytle Creek.

STOCKTON, CAL.—All bids opened by the Board of Supervisors of San Joaquin County on Jan. 5 for two steel drawspan bridges, one 191 ft. and one 241 ft., with a 60-ft. approach, span steel cylinders for foundation, have been rejected as excessive. New bids will be asked. Estimated total cost, $30,000. F. E. Quail is County Surv.

SALT LAKE CITY, UTAH.—We are officially advised that bids were opened on Jan. 8 by the Board of Public Works for the construction of a highway bridge across the Jordan River at North Temple St. The contract was awarded to the MINNEAPOLIS STEEL & MACHINERY CO., of Minneapolis, Minn., at $4,192. Louis C. Kelsey is City Engr.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

BAR HARBOR, ME.—Bids are asked until 3 p. m., Feb. 20, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Bar Harbor, Me.

BOSTON, MASS.—Shepley, Rutan & Coolidge, Archs., Ames Bldg., Boston, Mass., have designed a 10-story building for the Boston Safe Deposit & Trust Co., to be erected at Devonshire, Franklin and Arch Sts. The first two floors will be occupied by the bank and the upper floors will be fitted with offices. The office portion of the building will be ready for occupancy Jan. 1, and the bank March 1, 1910.

HARTFORD, CONN.—F. E. Dickerman, Supt. of the State Capitol, is arranging to reconstruct the roof of the Capitol Building in the spring. An appropriation for this and other repair work has been provided by the Legislature.

*NEW LONDON, CONN.—Bids are asked until 10 a. m., Feb. 10, by Major R. M. Schofield, Constr. Q. M., New London, for constructing one double barracks, one single barrack, two Field Officers' quarters, one 4-set officers' quarters, two Lieutenants' quarters, three double non-commissioned officers' quarters, and one double firemen's quarters, at Fort Terry (Plum Island), N. Y., and two double barracks, two field officers' quarters, four Lieutenants' quarters, two double non-commissioned officers' quarters, and two double firemen's quarters, at Fort H. G. Wright (Fishers Island), N. Y., and for plumbing, electric wiring and installing heating plants in same.

NEW YORK, N. Y.—We are officially informed that the John H. Davis Building Co., 312 West 109th St., are taking estimates for a $175,000 apartment house to be built on Edgecomb Ave., north of 146th St. This structure will have a frontage of 129.11 ft. and a depth of 86.2 ft., and will contain 48 apartments. The front will be brick and limestone. George F. Pelham, 503 Fifth Ave., is Arch.

The Court-House Board, consisting of William N. Cohen, Charles S. Fairchild, David B. Ogden, Edward M. Grout and Morgan J. O'Brien, has recommended to the Board of Estimate that the proposed building for the Supreme Court be erected in Washington Sq., and that the structure should cost between $6,000,000 and $7,000,000.

Patrick McMorrow, 130 West 125th St., who recently bought a plot of eight lots at the corner of Broadway and 157th St., has decided to erect a 10-story fireproof apartment house on the site, which fronts 200 ft. on the street and 99.11 ft. on Broadway, facing a subway station and the plaza formed by the intersection of the streets named and Audubon Pl.

We are informed by Warren & Wetmore, Archs., 3 East 33d St., that plans have been filed for a 19-story hotel, 197.6 × 80 ft., that will cost $2,000,000. It will be built for the City Leasing Co., Joseph W. Welch, Pres., 54 Wall St., on the Fourth Ave. block between 33d and 34th Sts., north of the Park Avenue Hotel. The hotel will be fireproof and will be built of brick, stone and steel, with terra cotta trim, and will be finished with cornice and peaked gables. Contracts will be let later.

The E. J. Maguire Construction Co. will erect two 6-story elevator apartment houses, one on the plot, 75 × 97 ft., on the south side of 178th St., 150 ft. east of Audubon Ave., and the other on the west side of Amsterdam Ave., 25 ft. south of 179th St., on plot 75 × 100 ft. George R. Euell is Arch. of both houses, which will cost $85,000 each.

The Rockfall Realty Co. has commissioned George and Edward Blum, Archs., 507 Fifth Ave., to prepare plans for a 10-story apartment house to be erected at the corner of Broadway and 111th St., on plot 75 × 225 ft. and irregular.

NEW YORK, N. Y.—Edward Pearce Casey, Arch., advises us that probably within three weeks, Theodore A. Bingham, Police Comr., will advertise bids for a police station, 81.11 × 99.11 ft., to be built at the corner of Delancey and Clinton Sts. Concrete blocks are to be used in the construction. The building will cost $165,000. It will be of the Florentine Renaissance type, finished with stucco on the interior. It will be lighted by latticed windows. It is to contain a series of separate cells for male and female prisoners, and three floors of dormitories with baths for the policemen. It will have a stable adjoining a court and driveway.

Allen & Collens, 1170 Broadway, Archs., for the Faculty of the Union Theological Seminary, 700 Park Ave., have filed with the Buildings Superintendent plans for the chapel which is to be the fourth of the buildings covering the seminary quadrangle bounded by Broadway, Claremont Ave., 120th and 122d Sts. It is to be of stone in the Gothic style, fronting 200.4 ft. north of 120th St. on Claremont Ave. and 40 ft. on 120th St. It will be 55¼ ft. high in the main part and have a tower 107¼ ft. finished with pinnacles, the chapel being lighted by high mullion window. An entrance hall paved with marble will open upon the nave and the chancel will be surrounded by carved high-backed oaken stalls for the choristers and the Faculty. Both the chancel and the nave will be paved in mosaic. The specifications place the cost of the building at $250,000.

We are officially advised that plans have been filed with the Buildings Superintendent for a 12-story store and office building to be erected for the Reade-Duane Cold Storage Co., 2 Wall St., on the block bounded by West and Washington, Reade and Duane Sts. It will replace ten office buildings, known as the Erie Buildings. The proposed building will have a frontage of 70.7 ft. on the river streets and 285 ft. on the side streets. It will be of ornamental brick and stone. The ground floor will contain stores. It is to cost $1,335,000, according to the estimate of William C. Hazlett, Arch., 1133 Broadway. Contracts will be let within a month by the architect.

Tiffany & Co. are about to erect a business structure adjacent to and south of their present building on the corner of Fifth Ave. and 37th St., on a lot owned by them, 41.8 × 111.8 ft. The new building will be erected for investment purposes and will not be occupied by the Tiffany Co. Preliminary plans for both 5 and 7-story structures have been drawn by McKim, Meade & White, Archs., 160 Fifth Ave., and estimates are being received. The architecture and facade will correspond in design to the present Tiffany Building.

NEW YORK, N. Y.—We are officially advised that four 6-story apartment houses are to be built in 144th St., 200 ft. east of Broadway, for the Young Realty Co., Charles H. Wallis, Pres., 144th St. and Broadway. They will have a frontage of 87½ ft. and a depth of 86.11 ft., with facades of brick and ornamental stone, and will cost $40,000 each. Thain & Thain, 4 East 42d St., are Archs. Estimates are being taken. Samuel Trood, West 144th St., is Supt. of Constr. Noted last week.

Dodge & Morrison, Archs., 82 Wall St., advise us that the following contracts have been let for a theater to be built at Coney Island for the Robinson Amusement Co.: General contract, PETER GUTHY, 926 Broadway, Brooklyn; structural steel, Receivers of MILLIKEN BROS., 11 Broadway, New York; chairs, AMERICAN SEATING CO., 19 West 18th St. Contracts for wiring and sprinklers have not been let. The building will be 118 × 200 ft., two stories high, and will cost $90,000; equipment, $10,000.

*BINGHAMTON, N. Y.—Bids are asked by T. E. McGarr, Secy. State Comn. in Lunacy, Capitol, Albany, until 3 p. m., Feb. 3, for construction, including heating, plumbing and electrical work, of a farmer's cottage, and for construction of a vegetable storehouse at the Binghamton State Hospital Franklin B. Ware, Capitol, Albany, is State Arch.

BUFFALO, N. Y.—Francis G. Ward, Commissioner of Public Works, has submitted to the Common Council tentative plans for the Technical High School to be built upon the 65th Arsenal site on Broadway, and has recommended that bids for architect's plans be invited. The plans submitted were drawn in conformation with ideas outlined by the Superintendent of Education and the Superintendent of the Technical High School.

JOHNSTOWN, N. Y.—We are officially advised that Fuller & Pitcher, Archs., 95 State St., Albany, N. Y., have been selected to prepare plans for a 2-story and basement high school, to cost $60,000 and to be 105 × 105 ft. The building will be of fireproof brick construction. It is probable that bids will be received by the Board of Education after Feb. 10. J. E. Hagadam is Clerk.

LE ROY, N. Y.—The Board of Education has decided to engage E. E. Joralemon, 225 Second St., Niagara Falls, N. Y., as Arch. for a proposed school building. It will be three stories high of brick, fireproof construction and will be erected next spring at an approximate cost of $80,000. Plans will be prepared at once.

NIAGARA FALLS, N. Y.—J. R. White, Arch., Gluck Bldg., is preparing plans for remodeling the 5-story International Hotel, for John F. McDonald, Main and Falls Sts. Cost, $150,000. The owner will receive bids about Jan. 25.

ROCHESTER, N. Y.—We are officially advised that J. H. Moore, Cook Opera House, has had plans completed by Leon H. Lempert & Son, Archs., Cutler Bldg., for a 5-story and basement theater building, 85 × 165 ft., with an L, 50 × 60 ft. The structure will have steel frame, stone, brick and concrete construction and will be built on Clinton Ave., South, at a cost of $250,000. Plans will be ready Jan. 28. Estimates will be received for the following: Heating and ventilating plant, plumbing, opera chairs, stucco, scenes, electrical work, ornamental iron, etc. Noted last week.

SCHENECTADY, N. Y.—The contract for the construction of the Carnegie Engineering Building for Union University at Schenectady, N. Y., has been awarded to R. M. BOOTH, of Troy, N. Y. The building will cost about $100,000. Work will be started at once.

WATERTOWN, N. Y.—The National Bank & Loan Co. is having plans prepared for a 7-story bank and office building to be erected at Washington and Stone Sts. It will be of brick and stone construction. Bids for construction will be called for soon.

BUTLER, PA.—The St. Paul's Catholic Congregation has purchased a site, and will have plans prepared at once for a brick church which will cost about $100,000. Construction will be started in the spring. No architect has been selected.

PHILADELPHIA, PA.—Negotiations have been concluded by the Wynne-Prince Co., Seventh and Walnut Sts., for the purchase of two plots of ground extending from Seventh to Franklin Sts., and from Franklin to Eighth Sts., between Butler and Pike Sts., for a consideration of about $75,000. The purchaser is a builder, and will begin work in a few weeks on an operation of 126 2 and 3-story dwellings, at a cost of about $365,000. The ground is located in the Erie Ave. section.

The contract for the proposed clubhouse of the Philadelphia Turngemeinde, at the corner of Broad St. and Columbia Ave., has been awarded to MATTHEW SCHMID, 1308 North Sixth St., who is taking sub-bids. Ballinger & Perrot are Archs., 1200 Chestnut St. The cost will be about $125,000.

Ralph E. White, Arch., Lenne Bldg., is completing plans for erection of an apartment house at Midvale Ave. and Oak Road, for the Philadelphia Housekeeping Apartment Company, at a cost of $800,000. Those

interested in the project are William F. Tatnall, Benjamin Hawley, Benjamin Gaines and C. Yarnall Abbott. Noted on Jan. 7.

A church, to cost $60,000, will be erected at the corner of 56th St. and Woodland Ave. Title to the site has been conveyed by the Presbytery of Philadelphia to the Westminster Church. The structure will be built of stone, 50 × 125 ft., and will seat 650 persons. It will be known as the Westminster Greenway Church.

PHILADELPHIA, PA.—Bids are asked until Feb. 10 by the Peoples Trust Co. for constructing an 11-story bank and manufacturing building, 45 × 134 ft. The building will be fireproof, of terra-cotta and concrete construction and will cost $200,000; equipment, $50,000. Sauer & Hahn, 1112 Chestnut St., Philadelphia, are Archs.

SCOTTDALE, PA.—Bids are asked by O. O. Hess, Secy. of the Bd. of Education, Scottdale, Pa., until 4 p. m., Jan. 25, for furnishing all materials and erecting a high school building here. Allison & Allison, Westinghouse Bldg., Pittsburg, are Archs.

*FORT DUPONT (Delaware City post-office), DEL.—Bids are asked until 11 a. m., Feb. 15, by the Constructing Quartermaster, Fort Du Pont, for construction of quarters for two N. C. Officers' (including plumbing, heating and electric wiring and fixtures) at Fort Du Pont, Del.

BALTIMORE, MD.—We are officially advised that estimates are being received by the owner for constructing 32 3-story iron, stone and brick dwellings, to cost $5,000 each. The total operation will cover an area 600 × 150 ft. The houses will have vapor steam heat, hardwood floors, improved plumbing, electric lighting, etc. They will be owned by the German Land Improvement Co., Law Bldg., Baltimore. Jacob F. Gerwig, 11 East Lexington St., is Arch.

Theodore Cooke, 914 North Charles St., and H. Webster Cooke, Law Bldg., have awarded contract to JEROME LOVE, 1424 South Jackson St., Baltimore, for erecting 24 dwellings on 31st St. They will be 16 × 61.6 ft., two stories, brick, with foundation of heavy stone laid in cement, Carey roofing, exterior wall of buff brick, with stone trimmings; fancy galvanized iron cornices, hot-water heat, electric lights, sanitary plumbing and sewerage. Cost, about $50,000.

Plans for the Protestant Episcopal Cathedral, the diocesan library and the Episcopalian residence, to be erected on the cathedral grounds on the new boulevard, near the new buildings of the Johns Hopkins University, have been completed by Henry Vaughan, Arch., Pemberton Bldg., Boston, Mass. The buildings will cost about $300,000 and will be built by the Diocese of Maryland. The cathedral will have a seating capacity of 3,000, and will follow lines of Gothic style. Granite will be the material used, while the interior will be finished in dark oak. The residence and library also will be of Gothic style.

Fifteen 2-story brick dwellings will be erected on the south side of Herbert St., between Eighth and Ninth Sts., by Mrs. Mary Fear from plans by F. E. Beall, Arch. Each of the proposed dwellings will front twelve ft. on Herbert St. and have a depth of 29 ft. The foundations will be of heavy stone laid in cement, and the cornices will be of fancy galvanized iron. Contract for erecting the dwellings has been awarded to FARWELL & THOMAS. Work of construction will begin at once.

BALTIMORE, MD.—The Baltimore "Sun" states that $2,197,730 will be expended by the city for public buildings during 1909. The work to be done is as follows:

Schools.—Ann St., $82,000; Reisterstown Road, $125,000; Waverly, $96,000; Stiles and Gough Sts., $82,000; Ramsay and Scott Sts., $66,000; Mulberry and Payson Sts., $120,000; Western High School, $125,000; Polytechnic, $120,000; Carroll and Windermere Aves., $24,000; South of basin, $100,000; Retreat St., $18,000; repairs, $97,325; alterations, $32,675; safety exits, stairs, corridors, etc., $75,000.

Fire Department.—Caroline and Eastern Aves., $30,000; Light and Montgomery Sts., $30,000; Edmondson Ave. and Bentalou St., $30,000; Russell and West Sts., $30,000; truck, Paca St., $20,000; truck, Calvert and Read Sts., $35,000; fireboat station, $35,000; pipe line station, $100,000; house, North and Fulton Aves., $30,000; house, Orleans and Central Aves., $30,000; house, Baltimore and Fremont Sts., $35,000; house, Charles and Barnett Sts., $75,000; Gorsuch Ave., $25,000; repairs, $50,000.

Miscellaneous.—City Jail addition, $138,000; bath house, Northeast Baltimore, $26,000; Bayview, new building, $75,000; sewerage station, $350,000; quarantine, $800; produce market, $33,000; shelving vaults, City Hall, $20,000; repairs City Hall, Hall Court-house, morgue and City Jail, $39,750; repairs, markets, $30,000; repairs, Bayview, $33,180.

The lots the city has acquired for schools are on Reisterstown Road, in Waverly; Mulberry and Payson Sts., Retreat St., and Carroll and Windermere Ave., and the addition to the Western High School. The engine house lots are on Caroline St. and Eastern Ave., Edmondson Ave. and Bentalou St., Russell and West Sts., Paca and Fayette Sts., Calvert and Read Sts., and on Gorsuch Ave. The city expects to purchase the other lots within the next few months. Edward D. Preston, 1637 Edmondson Ave., is Inspector of Bldgs.

WASHINGTON, D. C.—Bids are asked by the District Commissioners until noon, Jan. 25, for constructing an addition to the Business High School on R St., between Eighth and Ninth Sts. N W.

The contract for the construction of a school building at Garfield, D. C., bids for which were opened on Jan. 2, has been awarded to the THOMPSON-STARRETT CO., Commercial National Bank Bldg., Washington, D. C., at $85,300. A complete list of the bids received appeared in Engineering News on Jan. 7.

FORT MYER, VA.—Bids are asked by Capt. B. B. Hyer, Constr. Q. M., until 11 a. m., Feb. 9, for construction of a band stable at this post.

FORT MONROE, VA.—Bids are asked by Capt. Ernest R. Tilton, Q. M., until 10 a. m., Feb. 15, for construction, heating, plumbing, electrical wiring and fixtures for two sets of Field Officers' quarters at Fort Monroe, Va.

NATIONAL SOLDIERS' HOME, VA.—See item under Light and Power Plants.

ROANOKE, VA.—Bids are asked until 3 p. m., Feb. 23, by James Knox Taylor, Supervy. Arch., Treasury Dept., Washington, D. C., for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office and court-house at Roanoke.

AMERICUS, GA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office building at Americus, Ga., at $51,646, to GEORGE BECKING, Chattanooga, Tenn. Time, Jan. 1, 1910. A list of bids was given on Dec. 31.

*GREENVILLE, MISS.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Feb. 18, for the construction complete of the U. S. post-office at Greenville, Miss.

NEW ORLEANS, LA.—The following bids were received on Jan. 13 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for making repairs to the U. S. mint, New Orleans, La.: Ambrose B. Stannard, St. James Bldg., New York, $33,877; time, July 31, 1909. General Contracting Co., New Orleans, La., $29,900; time, June 15, 1909. Arthur Leide, New Orleans, La., $44,540; time, 150 working days. J. B. Mullaney, New Orleans, La., $36,730; time, June 30, 1909. John Reusch, New Orleans, La., $41,426; time, 150 days. John S. Ottenhofer, New Orleans, La., $33,161; time, June 15, 1909.

NASHVILLE, TENN.—Davidson County will remodel its court-house, it is stated. A special committee will engage architects to prepare plans, which will be submitted in April. It is proposed to make the building fireproof and erect an additional story. Estimated to cost not more than $75,000.

CHATTANOOGA, TENN.—J. T. Lupton, The Elizabeth, has awarded contract to WEST CONSTRUCTION CO., 1001 Market St., Chattanooga, for construction of three reinforced-concrete floors in a $100,000 dwelling. All work will be under the supervision of W. T. Downing, Arch., James Bldg., Chattanooga.

CINCINNATI, OHIO.—A building in the English collegiate style of architecture is to take the place of the present 23d District School, corner of Vine St. and University Ave., Corryville. It has been planned by James Gilmore, Arch., Fourth National Bank Bldg., and will be built almost opposite the branch Carnegie Library. The entire school will not be built at once. Only $66,000 has been appropriated for the central and northern wings. The latter is to face on University Ave. Estimates for the main portion will be received about Feb. 1. The general dimensions of the whole, when completed, will be 154 × 113 ft.

COLUMBUS, OHIO.—The Tracy-Wells Co., now located at the southeast corner of Spring and Front Sts., decided to erect its new building at the southwest corner of the same streets, and bids for the structure will be asked at once by Richards, McCarthy & Bulford, Archs., Ruggery Bldg. The building will be eight stories high, with basement and sub-basement, and will cover the lot, which is 92 × 187½ ft. It will be built of reinforced concrete, with reinforced-concrete floors.

TOLEDO, OHIO.—M. O. Baker, 121 Superior St., has completed arrangement with the Feilbach Co., 114 Huron St., wholesale grocers, to build for the latter a 6-story and basement reinforced-concrete structure to cost about $50,000. The building, which is to be 60 × 110 ft., will be located on Erie St., between Washington and Lafayette Sts., and adjoining the building erected some time ago by Jerome H. Smith for the Toledo Merchandise Co. The new structure will be equipped with the sprinkler system. Plans for the building have been prepared by Geo. S. Mills, Arch., Ohio Bldg. The structure will be completed not later than Aug. 20.

*FORT WAYNE, IND.—Bids are asked by William F. Stilwell, general contractor, La Fayette, Ind., until noon, Jan. 27, for erecting the steel for the 9-story Shoaff Bldg. F. B. Meade, Garfield Bldg., Cleveland, Ohio, is Arch.

INDIANAPOLIS, IND.—D. A. Bohlen & Son, Archs., Majestic Bldg., advise us that they are preparing plans for a 4-story temple for the Murat Temple Association. Cost, $350,000; equipment, $50,000. The building will be fireproof, of stone, steel and terra-cotta construction, and 112.6 × 200 ft. Plans will be ready for estimates after March 1.

INDIANAPOLIS, IND.—Trustees of the German Evangelical Lutheran Orphanage Society are planning to erect an addition to the Orphans' Home on East Washington St. Rev. Peter Suel is Pres.

RICHMOND, IND.—Bids are asked by the Murray Theater Co. until Feb 3 for the construction of a theater building in this city. Fred W. Elliott, Columbus, Ohio, is Arch.

D. W. Comstock has ordered plans for the construction of a business block on Main St. Bids will be in order as soon as plans are completed.

The Terre Haute, Indianapolis & Eastern Traction Co. will ask for bids soon for the construction of a freight depot in the north part of the city. C. C. Reynolds, Indianapolis, Ind., is Gen. Mgr.

NILES, MICH.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded to MAX W. STOCK, of St. Joseph, Mo., contract for the construction of a post-office building at Niles, Mich., at $43,969. Time, Feb. 1, 1910. A full list of bids was given on Jan. 7.

SAULT STE. MARIE, MICH.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded to ED HENRY, South Bend, Ind., contract for the construction of a post-office at Sault Ste. Marie, Mich., at $129,333. Time, July 15, 1910. A full list of bids was given on Jan. 7.

COLDWATER, MICH.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Coldwater, Mich., to CHARLES W. GINDELE CO., 3333 La Salle St., Chicago, at $37,800. Time, Jan. 1, 1910. A list of bids was given on Dec. 24.

KANKAKEE, ILL.—L. B. Bratton, Chn. County Bd., advises us that Kankakee County will erect a court-house in this city, to cost $200,000. The building will be fireproof, 100 × 150 ft. and will have three stories and basement. Bids probably will be called for in March. Zachary T. Davis, 79 Dearborn St., Chicago, Ill., is Arch.

ALTON, ILL.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office building at Alton, Ill., to C. L. GRAY CONSTRUCTION CO., Victoria Bldg., St. Louis, Mo., at $62,956. Time, Jan. 1, 1910. A complete list of bids received on Dec. 29 was given on Dec. 31.

MARSHALLTOWN, IOWA.—An office building, costing $60,000 will be erected here next summer by T. Binford, on the Binford lot at Second Ave. and Main St. The building will be four stories high, built of brick, with a stone front. The first floor will be made into storerooms and the upper stories will be used for offices. The building will be equipped with a passenger elevator.

MINNEAPOLIS, MINN.—According to press reports, Herman Fehr, of this city, representing the Empire circuit of theaters, and Archie Miller, Mgr. of the Dewey Theater, Minneapolis, are interested in construction of a burlesque and vaudeville theater to cost $150,000.

FORT BAYARD, N. MEX.—Capt. S. P. Vestal, Q. M. at Fort Bayard, advises us that bids will be called for in two or three months for the construction of buildings, the combined cost of which will aggregate about $235,000. The last Congress appropriated $214,000 for those improvements, and the money being now available, work will start at once. It is expected that it will take at least a year to complete the improvements, which contemplate the tearing down of the present officers' row and substituting therefor six double sets of officers' quarters, each two stories in height, one single set of officers' quarters and two quarters for the nurses of the Government hospital, also a storehouse for the medical department and one steam laundry. There will be 20 rooms in each double set of officers' quarters, which will be of brick, two stories in height, and will have a 2-story front veranda for sleeping purposes.

KANSAS CITY, MO.—Plans for an office building have been completed by Herman J. Strohe, Arch., Kemper Bldg., and its erection will begin April 1. The structure is to be located on the corner of Eleventh and McGee Sts. It will have a frontage of 48 ft. on Eleventh St. and 132 ft. on McGee St., and will cost, when completed, about $250,000. It is to be ten stories high, of steel and tile fireproof construction for the interior, while the outer walls will be of terra cotta and building brick. D. O. Smart, Jr., is the owner of the property at the location named and is interested in the project. The building throughout is to be supplied with tile floors and marble trimmings.

ST. LOUIS, MO.—We are officially advised that Milligan & Wray, Archs., 721 Olive St., have prepared plans for a 3-story and basement manlacal building for the Board of Public Improvements. A. J. O'Reilly, Pres.; W. B. Dryden, Secy. The contract was let on Jan. 15 to the HILL-O'MEARA CONSTRUCTION CO., Syndicate Trust Bldg., St. Louis, at $70,960.

PORT ARTHUR, TEX.—The Chicago "Record-Herald" states that the City Council has donated to John W. Gates, upon request, two plots of ground, upon one of which is to be erected a co-educational college to cost $100,000. Upon the other will be constructed a hospital. The hospital will cost $20,000.

TULIA, TEX.—The Swisher County Commissioners have awarded contract to MARTIN., HOLDERNESS & OATS, Stamford, Tex., for erection of court-house. It will be a 3-story and basement building, 76 × 104 ft., brick and stone, fireproof, with steam heat, electric lighting. Cost, $60,000. Withers & Elliott, Stamford, Tex., are Archs.

HOUSTON, TEX.—The St. Louis, Brownsville & Mexico, R. R. Co., J. N. Miller, Kingsville, Tex., Gen. Mgr.; Gulf, Colorado & Santa Fe Ry. Co., C. F. W. Felt, Ch. Engr., Galveston, Tex.; Missouri, Kansas & Texas Ry. System, S. B. Fisher, Consult. Engr., St. Louis, Mo.; Trinity & Brazos Valley Ry. Co., P. G. Burns, Houston, Tex., Ch Engr.; Colorado Southern, New Orleans & Pacific R. R. Co., J. H. Elliott, Beaumont, Tex., Gen. Mgr., are interested in erection of proposed Belt Line Terminal passenger depot and train sheds, according to the "Manufacturers' Record," and will issue $350,000 of bonds to provide for construction work. The terminal company is said to have expended $500,000 in actual improvements.

SEATTLE, WASH.—Bebb & Mendel, Archs., Denny Bldg., for Cyrus Walker, have awarded a contract for the construction of a modern 6-story brick and steel hotel to be erected at once on the corner of Pike St. and Minor Ave. The structure will cover an L-shaped lot, having a 60-ft. frontage on Pike St. and 120-ft. frontage on Minor Ave. There will be stores on the Pike St. side of the building, and the entrance to the hotel will be on Minor Ave. Cost, $100,000. The contract has been let to E. J. ROUNDS & CO., and the building must be completed by July 1.

PORTLAND, ORE.—We are officially advised that the following contracts have been let for constructing a 10-story Class A building, 60 × 100 ft., for Clementine F. Lewis: Concrete structure, floor and roof, HURLEY & MASON CO.; carpenter work, PHIL E. DUNNAVANT & CO.; plumbing, WILLIAMS & BEGGS; wiring and conduit work, WEST COAST ENGINEERING CO., Couch Bldg. David C. Lewis, Couch Bldg., is Arch. The building will be of reinforced concrete with mahogany interior finish, and will be built at the corner of Fourth and Oak Sts. Total cost, $150,000.

PASADENA, CAL.—The Trustees of the Throop Institute, Pasadena, have announced that they have $70,000 on hand and are ready to start on the construction of the first of the new buildings. It will be designated as the Engineering Building. Myron Hunt and Elmer Grey, Braly Bldg., Los Angeles, are Archs.

REDLANDS, CAL.—Norman F. Marsh, Arch., 206 Broadway Central Bldg., Los Angeles, has been authorized to prepare the working plans for the proposed Administration Building, 156 × 60 ft., for the University of Redlands. This is the first of the group of buildings to be erected by the University. This building, as all other[s] will be reinforced concrete[-] red clay tile roof.

SAN FRANCISCO, CAL.—[The] structure at Market and [Ja]demolished so that a Class [A] be erected. The structure [is] be three stories high, with [re]frame and stone finishings. [It] will be so constructed that [it] can be added as the demand [re]The original cost of the [s]$250,000. The site of the [s]by the Edward Barron E[s]Trust Bldg., and is under [a]the Douglas Realty Co.

The Supervisors' Hospital [C]recommended that the $2[0] County Hosital be erected [on] Potrero Ave. and 22d Sts. [It] consists of Henry Payot, [P]Charles A. Murdock. [Ne]Grant Bldg., is City Arch.

A department store is to [be] corner of Market and Jones [Sts.] Co. Inc. The building will [cost] is estimated to cost $27[5,000] Schnaittacher, 787 Market St.

A building of five stories [and] to be erected at once on the [south] O'Farrell St., 137.6 ft. east [of] adjoining the Shiels Building. [Work] construction. The building is [to be] a furniture store, and will be [occupied] Harry Moore Furniture Co. [It] be of terra cotta, with large [windows] floor or story being supported [by] pilasters between the windows, [each] will be finished with a cornice [of] with the rest of the design. Sutton & Weeks, Mutual Savings Bank Bldg., are [the Architects] der the contracts with the [understanding] ing must be finished and ready [for] within six months. Construction [is to begin] immediately. The building will be Class C brick type.

OAKLAND, CAL.—The Western Pacific Ry. Co. has completed designs for [stations at] Oakland and Sacramento. The Oakland station is to be constructed of concrete and made fireproof. It will be finished on the surface in rough white cement. The building will be long and low, but very suggestive of Greek in combination with Roman architecture. The Sacramento station will be constructed of white cement and will be of the Mission style of architecture. V. G. Bogue, San Francisco, is Vice-Pres. and Ch. Engr.

TUCSON, ARIZ.—The Whitwell Hospital, erected at a cost of $75,000 by Mrs. Whitwell, of Brooklyn, N. Y., has been totally destroyed by fire. The owner will rebuild the structure as soon as arrangements can be completed.

TORONTO, ONT.—The Toronto Executive Council met recently to consider plans for the extension of the Parliament buildings at an estimated cost of $500,000. Hon. F. O. Reaume, Toronto, is Minister of Public Works.

WATER SUPPLY—IRRIGATION.

RUTLAND, VT.—Plans have been prepared by French & Bryant, of Boston, Mass., for the construction of the proposed reservoir for the Rutland Ry., Light & Power Co. Estimated cost, about $25,000. Work will probably not be started before July. George S. Haley is Gen. Mgr.

DUDLEY, MASS.—We are officially advised that F. L. Fuller, 12 Pearl St., Boston, Mass., has prepared plans and estimates for the construction of a water-works system here.

SOUTHBORO, MASS.—We are officially advised that surveys, plans and estimates for the construction of water-works here have been made by F. L. Fuller, 12 Pearl St., Boston.

*PROVIDENCE, R. I.—We are officially advised that the contract for furnishing c.-i. water pipe has been awarded to the CAMDEN IRON WORKS, of Camden, N. J. Bids were received as follows: U. S. Cast Iron Pipe & Foundry Co., New York, $24.80 per net ton; Warren Foundry & Machine Co., $23.40; Camden Iron Works, $23.20; Allen & Reed, Inc., Providence, R. I. (for American Water Works Association specifications), $23.20. Bids were opened on Jan. 8. Walter F. Slade is Comr. Pub. Wks.

*NEW YORK, N. Y.—All bids were rejected on Jan. 19 by the Board of Water Supply for contract 36 for the construction of the north half of the Walkill Pressure Tunnel, a tunnel in rock crossing under the valley of the Walkill River, with three shafts 350 to 480 ft. in depth, and a short stretch of plain concrete conduit, known as cut-and-cover aqueduct, and for contract 37, for the construction of the south half of the Walkill Pressure Tunnel, with three shafts 350 to 400 ft. in depth, and a short stretch of plain concrete conduit, known as cut-and-cover aqueduct. The pressure tunnel is to be circular, 14½ ft. inside diameter, and the aqueduct, 17 ft. high by 17½ ft. wide inside. The work is located in the towns of New Paltz and Gardiner, Ulster County. Bids were asked for each contract separately and for both contracts combined. Booth & Flynn, Ltd., Pittsburg, Pa., and The American Pipe Mfg. Co., Fidelity Bldg., Philadelphia, Pa., were the lowest bidders. The contract with alterations will be advertised again.

MIDDLETOWN, N. Y.—The NEW YORK CONTINENTAL JEWELL FILTRATION CO., 25 Broad St., New York, has secured the contract for the complete installation of four concrete filters, proposed as an additional supply, to be located in the present building and to discharge into the present clear wells at $8,565. Time, 120 days.

MOUNT MORRIS, N. Y.—The Board of Village Trustees has engaged J. F. Skinner, Consult. Engr., Buffalo, N. Y., to prepare plans and specifications for a new water-works system to comprise reservoir, pumping station and piping. Estimated cost, $40,000.

BAINBRIDGE, N. Y.—The village has voted an appropriation of $7,000 to extend the intake line about 2,000 ft. and install mechanical filters. H. F. Musson, Norwich, N. Y., is Engr.

HOLLY BEACH, N. J.—The proposed plant of the Holly Beach Wildwood & North Wildwood Water Co. will cost about $100,000. The engineer has not yet been selected. C. A. Norton is Pres.

BALTIMORE, MD.—The A. P. SMITH MFG. Co., of Newark, N. J., has been awarded a contract for a supply of corporation cocks for the year 1909 at $8,894. Bids were opened on Dec. 31.

The Board of Awards on Jan. 6 rejected all bids opened on Dec. 31 for furnishing service extension pipes and valve boxes for the year 1909. New bids will be asked. J. Barry Mahool is Pres. Bd.

ORANGE, VA.—Plans for constructing a water-works system for this city are being prepared by D. G. Adelsberger, Consult. Engr., Baltimore, Md. Estimated cost, $30,000.

ELBERTON, GA.—It is proposed to lay 800 or 1,000 ft. of 6-in. water main needing double nozzle fire hydrants, etc., and to make repairs to the filter plant. G. W. Hubbard is Supt. W.-Wks.

MONTGOMERY, ALA.—The City Council is considering the installation of an addition to the pumping plant.

SCRANTON, MISS.—The contract for pipe laying has been awarded to HOWARD NEELY, of Franklin, Tenn. Walter G. Kirkpatrick, Jackson, Miss., is Engr.-in-Charge.

THIBODAUX, LA.—The city has engaged George U. Borde, M. E., 914 Hibernia Bldg., New Orleans, La., as consulting engineer to prepare plans and specifications for water-works and electric light plant.

CHATTANOOGA, TENN.—An ordinance has been passed by the Council to issue bonds for $500,000 for the purchase or construction of a water-works plant.

SEBREE, KY.—Bids will be received by G. W. Cavanah, Town Clk., until noon, Feb. 15, for the construction of a complete system of water-works. C. H. Ramsey is Mayor.

GALION, OHIO.—A. J. STOUGH, of Galion, has been awarded the contract at about $7,000 for excavating for the Cleveland, Chicago & St. Louis Ry. reservoir north of this city.

GIRARD, OHIO.—The SCHOLL ENGINEERING CO., of Youngstown, Ohio, has been awarded the contract by the city for constructing the water-works system here.

JEFFERSONVILLE, IND.—The Board of Trustees of the Indiana Reformatory at Jeffersonville has authorized W. H. Whittaker, Gen. Supt., to install a duplicate water service with a capacity of 1,100 gallons per min.

IRONWOOD, MICH.—The Ironwood Water-Works Co. will improve the water system, laying about one mile of mains and constructing an addition to the pumping station.

CARLYLE, ILL.—Bids are asked until Jan. 29 by A. A. Wade, City Clk., for improvements to the water-works and electric light plant.

MOLINE, ILL.—Bids will probably be asked the latter part of January or in February for water main extension in the Sixth Ward, including about 11,200 ft. of 6-in. c.-i. water pipe, 25 hydrants, 17 valves, etc. Clark G. Anderson is City Engr.

BLOOMINGTON, ILL.—The Board of Local Improvements has adopted estimates for constructing a water main in South Madison St.

DONOVAN, ILL.—Bids will be received by Frank J. Duzenbery, Pres. Bd. of Local Improvements, until 10 a. m., Jan. 23, for about 6,565 ft. of water main improvements.

PERRY, IOWA.—The town has decided to rebuild the water-works plant. Estimated cost, $15,000.

DULUTH, MINN.—Bids were opened on Jan. 7 by the Board of Water and Light Commissioners for 1,200 tons of water and gas pipe. The contract was awarded to the U. S. CAST IRON PIPE & FOUNDRY CO., 71 Broadway, New York, at $31,508.

EVELETH, MINN.—The City Council on Jan. 5 awarded the contract to PASTORET & LUNZ, of Two Harbors, Minn., for constructing the 300,000-gallon steel water tank and for laying the necessary piping at $12,750 for the tank and tower and about $13,136 for pipe laying.

NEW ULM, MINN.—Bids will be received by the City Clerk until 5 p. m., Feb. 15, for constructing a covered reinforced-concrete reservoir of 1,000,000 gallons capacity. Plans and specifications are on file in his office. H. F. Blomquist is City Engr.

WICHITA, KAN.—Bids are asked until 7.30 p. m., March 15, by R. N. Door, City Clk., for the construction of a water-works system. Estimated cost, $860,000.

HAYS CITY, KAN.—The contract for the enlargement of the water-works system has been awarded by the Council to FRANK A. HURLBURT & CO., of Kansas City, at $17,390. The new pump house will be near the present one, the source of water coming from eight points. There will be two pumps, one of 20,000 gallons per hour, the other 40,000 gallons.

BALDWIN, KAN.—Bids are asked until 8 p. m., Jan. 22, by the city for two triplex power pumps, electric motor, gas engine, gasoline engine, poles and wire, steel tank and tower, six miles of 4-in. and 6-in. pipe with hydrants, valves, etc. Specifications on file at 1416 First National Bank Bldg., Chicago, Ill., and 716 Scarritt Bldg., Kansas City, Mo. M. A. East & Co. are Engrs., Muskogee, Okla.

MINOT, N. DAK.—Bids are asked by the City Auditor until Feb. 4, for the construction of a brick and concrete pumping station complete with pumps, filters, etc., also steel water tower and tank and about eleven miles of 6 to 16-in. mains. E. S. Severance is City Engr.

SELBY, S. DAK.—Plans for the construction of water-works are being prepared by the Dakota Engineering Co., of Mitchell. Bids for a 10-in. well, from 300 ft. to 2,000 ft. deep will be asked about Feb. 10. The remainder of the work will be let at a later time.

CARL JUNCTION, MO.—The city has voted $9,900 of bonds for water-works construction. Plans are being prepared by the Michel-Cook Engineering & Construction Co., Joplin, Mo. Willis G. Clark is City Clk.

HAMLIN, TEX.—The city has voted $25,000 of bonds for the construction of water-works.

DENISON, TEX.—The city contemplates the construction of a reservoir with a capacity of 1,342,000,000 gallons, with ten square miles of watershed. Alexander W. Acheson is Mayor.

CLODINE, TEX.—Contracts have been let by the Cane & Rice Belt Irrigation Co. for the widening and lengthening of the company's irrigation canal near Fulshear and Clodine. With these improvements, work on which will begin immediately, the company expects to water 15,000 acres of land. The contractors are BRAMER & BROWN and W. S. DELANEY. Total of contracts, $15,000.

*ANADARKO, OKLA.—Bids will be received by the Mayor until Feb. 1, for the purchase by the city of two triplex pumps, two return tubular boilers, c.-i. water pipe, hydrants and valves, and sewer pipe and fittings; also for flush tanks and manhole covers. O'Neill Engineering Co., Dallas, Tex., Engr.

BOULDER, COLO.—THE MAC ARTHUR BROS. CO., 11 Pine St., New York, advises us that it has secured the contract for the building of the Barker Meadow Dam at Boulder and expects within a few weeks, to start work on same. The Barker Meadow Dam will be a concrete structure of about 135,000 cu. yds. The length of the dam at the surface of the creek is to be about 250 ft., and height of dam above bed rock is to be about 180 ft. The length of the crest is to be about 625 ft. The dam is to be built of cyclopean concrete masonry.

SILT, COLO.—We are officially advised that the Grand Junction Electric Ry. Co., E. A. Sunderlin, Vice-Pres. and Gen Mgr., Mining Exchange Bldg., Colorado Springs, Colo., will soon ask for bids for furnishing material and constructing pumping plant equipment and steel pipe lines for the irrigation of its lands in the Grand Junction Valley at Silt. The work will consist of water turbines, drives, centrifugal pumps, steel discharge and steel invert syphon pipe lines and all accessories. Plans will be furnished by E. A. Sunderlin, Gen. Mgr., Mining Exchange Bldg., Colorado Springs.

SWINK, COLO.—It is proposed to construct a water-works plant here. Estimated cost, $20,000. Irving Sinsheimer, of Swink, is Engr.

DENVER, COLO.—The Henrylyn Irrigation District, C. M. Ireland, Pres., has awarded to the PARKER WASHINGTON CONSTRUCTION CO., 4500 Duncan St., St. Louis, Mo., the contract for constructing its irrigation system. About $3,000,000, it is stated, will be expended on this system during the year 1909.

HOLLY, COLO.—Bids were opened on Jan. 7 by the city for the machinery and installation of the water-works plant. The MINE & SMELTER CO., of Denver, Colo., was awarded the contract for the machinery, and the W. W. COOK CONSTRUCTION CO., of Kansas City, Mo., the contract for the installation work. Total cost, $12,950. Time, 90 days.

DENVER, COLO.—The Pawnee Irrigated Lands Co. received a grant on Jan. 7 from the State Land Board of 8,500 acres under the Carey act. The company is capitalized for $250,000 and has behind it Francis Lonergan, Evans, Colo.; Courtenay C. Washington, Greeley, and Henley A. Calvert, of Denver. The company will construct a reservoir.

NORWOOD, COLO. — We are officially advised that surveys are in progress for the location and construction of a flume and canal, taking water from the San Miguel River for the purpose of irrigating about 50,000 acres of mesa lands lying between Norwood and East Paradox Valley, in the southwestern portion of Montrose County, Colo. The total length of the canal is approximately 70 miles and its carrying capacity will be 400 cu. ft. per second. Robert McF. Doble, Consult. Engr., Majestic Bldg., Denver, has charge of the work.

SEATTLE, WASH.—R. H. Thomson, City Engr., has reported the estimated cost of the following local improvement work: 16th Ave. South, and other streets, water mains, $12,500; 24th Ave. North and other streets, water mains, $10,000; North 50th St. and other streets, water mains, $52,500.

SEATTLE, WASH.—Bids will be received by C. B. Bagley, Secy. Bd. of Pub. Wks., until Jan. 22, for the following street improvements: Sixth Ave., N. E., and other streets, water mains, $6,610; West 60th St. and other streets, water mains, $3,500; Lakeside Ave. and other streets, water mains, $13,800.

Contracts have been let to the INTERNATIONAL CONTRACT CO., New York Block, for the improvement of Crescent Drive and other streets, by constructing water mains, at $11,402, and to the SPARGER CONCRETE CO., Coleman Bldg., for constructing water mains in 15th Ave., N. E., and other streets, at $6,872.

SACRAMENTO, CAL.—Bids will be received until 8 p. m., Jan. 25, by M. J. Desmond, City Clk., for 8,400 ft. of c.-i. water pipe.

BOISE, IDAHO.—We are officially advised that the Owyhee Land & Irrigation Co., Ltd., will construct a concrete dam on Castle Creek 200 ft. high. About 40 miles of canals will be excavated. Work will not begin for about 90 days. M. D. Polk is Pres.

DOWNEY, IDAHO.—The BANNOCK ENGINEERING CO., Ltd., Pocatello, Idaho, has been awarded a contract by the Portneuf Marsh-Valley Irrigation Co. for the construction of canals. The work is located from near McCammon to Downey, in Bannock County, Idaho, including approximately 350,000 cu. yds. of earth excavation. The company desires to purchase scrapers and graders.

OAKVILLE, ONT.—All bids opened on Jan. 6 by the city for intake pipe for the water-works have been rejected. The work will be done by day labor. Willis Chipman, of Toronto, Ont., is Engr.

EDMONTON, ALTA.—See item under Light and Power Plants.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

TAUNTON, MASS.—The Mayor in his annual message on Jan. 4 recommended an appropriation of $15,000 for sewer laterals.

NORTH ADAMS, MASS.—S. P. Buckley, Supt. of Streets, in his annual report recommended that storm sewers be constructed in State St. at the south end and in portions of School, Houghton, Fuller, East Quincy Sts. and Summit Ave., and that Ashland St. be paved from Chestnut St. to Blackinton St.

PROVIDENCE, R. I.—WALDO BROS., 102 Milk St., Boston, Mass., have been awarded the contract by the city for about 43,375 ft. of 6, 8, 12 and 15-in. sewer pipe, with branches, etc., at $9,330. Bids were opened on Jan. 4.

PUTNAM, CONN.—The Mayor in his annual message to the Council on Jan. 4 recommended the installation of an adequate sewer system.

ROCKVILLE, CONN.—On Jan. 4 the Mayor recommended to Council that the Special Committee on Sewage Filtration prepare a report and estimate of cost, etc., of constructing a sludge bed.

BROOKLYN, N. Y.—Bids will be received until 11 a. m., Jan. 27, by Bird S. Coler, Boro. Pres., for furnishing material and constructing a sewer in portions of 46th St., 1,498 lin. ft. 36-in. brick and 4,455 lin. ft. 12, 15, 18 and 24-in. pipe sewer, 59.2 M. ft. lumber, etc.; in 54th St., 260 ft. 30-in. brick, 2,875 ft. 12, 15, 18 and 24-in. pipe, 76 M. ft. lumber, etc.; in Twelfth Ave., 2,970 lin. ft. 12, 15, 18 and 24-in. pipe, 2.9 M. ft. lumber, etc.; in 81st St., 790 ft. 12 and 15-in. pipe.

NEW YORK, N. Y.—The contract for completing the contract which was executed by the Williams Engineering & Contracting Co. on Nov. 6, 1907, and declared abandoned Oct. 26, 1908, for completing the contract for the construction of the storm relief sewer near Wendover Ave., in the Mill Brook Watershed sewage district No. 23, to the Harlem River, about 231 ft. north of High Bridge, 24th Ward, Borough of the Bronx, has been awarded by Louis F. Haffen, Boro. Pres., to McDONALD & BARRY, Tiebout Ave. and 183d St., Borough of the Bronx, at $275,278. Bids were opened on Jan. 12.

UTICA, N. Y.—Plans are being prepared by Arthur O'Brien, City Engr., for the construction of a storm water sewer in Auburn Ave. and in the street south of the avenue, about 5,000 ft. in length.

*OSWEGO, N. Y.—Bids will be received by the Department of Works until 2 p. m., Jan. 29, for the construction of a 12-in. tile sewer in Mitchell St., from the east line of Ninth St. to the sewer in the center of Tenth St., with the necessary manholes, catch basins and connections. John Smith is Comr.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., Feb. 3, by Bird S. Coler, Boro. Pres., for constructing sewers and sewer basins in various streets.

*RYE, N. Y.—THE GLOBE FOUNDRY CO., of Port Chester, N. Y., has been awarded the contract to furnish all the iron manhole frames and covers needed in the construction of the sewer system here. There will be about 500 required.

ELIZABETH, N. J.—Bids will be received by the City Council until 8.30 p. m., Feb. 1, for the construction of a sewer in Jersey Ave., connecting with sewer of the joint municipalities. Plans, etc., may be examined at the office of N. K. Thompson, St. Comr.

ASBURY PARK, N. J.—John L. Coffin, Supt. Dept. Water and Sewers, has completed plans for the installation of a septic system for the disposal of sewage. Estimated cost, $35,000.

PITTSBURG, PA.—Plans will be prepared by the Engineering Department for the construction of a main sewer in the West End. N. S. Sprague is City Engr.

BALTIMORE, MD.—Calvin W. Hendrick, Ch. Engr. Sewerage Comn., American Bldg., informs us that the Commission is ready to begin laying lateral sewers throughout the city. The city has been divided into sanitary districts, about 50 in number. The first of these will be started in the northeastern section of the city, along the outfall sewer. This contract will cover about 15 miles of pipes, ranging in size from 24 to 6 ins., and will include both lateral sewers and house connections, as the law requires the sewer to go back to the building line with the house-connection. The Commission expects to let contracts for a number of districts, which will come out from time to time this year. The city will have, approximately, 1,100 miles of sewers, drains and house-connections to lay, at a total estimated cost of $18,500,000. This includes pumps, which will lift the sewage of the low level district up to the force mains, a distance of 72 ft., including friction. The disposal plant eventually will be capable of treating 300,000,000 gallons of sewage per day.

PARKERSBURG, W. VA.—Bids will be received until 8 p. m., Jan. 21, by the Board of Affairs for constructing sanitary sewers in portions of Staunton, Park, Haxwell and Pearcy Aves., and Mark, Seventh, 16th and 17th Sts. Frank Good is Audr.

BENNETTSVILLE, S. C.—The city has awarded the contract to J. M. EDWARDS, Hickory, N. C., at about $17,000, for the construction of a sanitary sewer system comprising about six miles of piping, from 8 to 15 ins. in diameter, the city to furnish the piping, which has been contracted for at $5,000 with the POMONA TERRA-COTTA CO., Pomona, N. C. Bandy & Myers, Greensboro, N. C., are Engrs; T. E. McCall, Chn. Sewer Comn.

PARK STATION (Knoxville post-office), TENN.—The time for opening bids for the construction of the sewer system here has been extended until Jan. 25. Bids were asked until Jan. 11. W. C. Crozier is City Engr.

COLLEGE HILL (Cincinnati post-office), OHIO.—Plans and specifications are on file at the office of Engineering News, New York, for constructing sewers here. Bids are asked until Feb. 8. J. A. Stewart, 1112 Traction Bldg., Cincinnati, is Engr.

PORTSMOUTH, OHIO.—Bids will be received by the Board of Public Service until noon, Jan. 22, for the construction of Brown-Raynor extension of Damarin alley branch of the sanitary sewer, between Fifth and Sixth Sts. Martin W. McMahon is Clk. Bd.

YOUNGSTOWN, OHIO.—Bids will be received until Jan. 25 by the Board of Public Service, W. H. McMillin, Clk., for constructing sewers in portions of Walnut St. and Wellendorf and Wick Aves.

LORAIN, OHIO.—Plans for the construction of the East Erie Ave. sewer district have been completed by the City Engineer.

WYANDOTTE, MICH.—The Board of Public Service on Jan. 7 ordered Mason L. Brown to prepare plans, specifications and estimates for the construction of sewers in West Wyandotte. Estimated cost, between $60,000 and $65,000.

DETROIT, MICH.—We are officially advised that contracts have been awarded as follows by the Department of Public Works for the construction of sewers: Gratiot Ave. sewer to JAMES HANLEY; Waterman Ave. sewer to F. PORATH & SON. J. J. Haarer is Comr. Pub. Wks. Bids were opened on Jan. 15.

ROCK ISLAND, ILL.—The Board of Public Improvements on Jan. 6 voted in favor of the construction of the proposed Sixth Ward, sewer system, from 20th to 30th St. Estimated cost, $42,400. Wallace Treichler is City Engr.

MOLINE, ILL.—Bids will probably be asked the latter part of January or early in February for the Sixth Ward sewer, including about 25,800 ft. of sewer 6 to 15-in. diameter, 46 manholes, etc. Clark G. Anderson is City Engr.

EAST ST. LOUIS, ILL.—Bids will be received by the Board of Local Improvements until Feb. 17 for the construction of a system of concrete and pipe sewers and a sewage pumping station. W. T. Crocken is City Engr.

AURORA, ILL.—The City Engineer has about completed plans for the construction of 30,000 ft. of sewer extension in the Third and Fourth Wards.

TWO RIVERS, WIS.—Bids will be received by the Board of Public Works until 8 p. m., Jan. 22, for the construction of a sewer in 21st St., between Adams St. and the East Twin River. William Luebke is Chn. Bd.

DES MOINES, IOWA.—James Horrabin, at $1.79 per ft., and the Turner Improvement Co., at $1.89 per ft., are the only bidders for constructing the West Seventh St. sewer.

GRUNDY CENTER, IOWA.—The Council on Jan. 5 passed an ordinance providing for the construction of a sewer system here. Estimated cost, $15,000. E. A. Cary is Chn. Sewer Com.

ST. PAUL, MINN.—The Board of Public Works on Jan. 7 awarded to O'NEIL & PRESTON the contract for the Fairview and St. Clair sewer system, at $15,093. L. W. Rundlett is City Engr.

TOPEKA, KAN.—Plans are being prepared for constructing sewers in Kenwood sewer district No. 29 to include about 14,000 ft. of pipe. J. P. Rogers is City Engr.

IPSWICH, S. DAK.—Plans for the construction of a sewerage system and purification plant are being prepared by the Dakota Engineering Co., of Mitchell, S. Dak. The contract for construction will probably be let in the early spring.

LITTLE ROCK, ARK.—The city will construct a storm water sewer. E. A. Kingsley, Supt. Pub. Wks., estimates the cost at $10,000.

LONGVIEW, TEX.—The Longview Sanitary Co. has been incorporated with $20,000 capital stock by E. M. Thomas, J. M. Wilker and G. B. Smith to maintain sewerage system.

GALVESTON, TEX.—Bids were opened on Jan. 9 by the City Commissioners for the construction of the Ave. M reinforced concrete drain from 31st to 43d Sts. It was the second time bids for the work had been opened by the city. On Dec. 24 five bids were opened. The bids at that time provided that payment for the work would be made at the ratio of one-quarter cash and three-quarters in bonds, but it was found that the city did not have enough bonds on hand, so all bids were rejected. The bids received on Jan. 9 were on the basis of one-half cash and one-half in bonds. HEFFRON & FALLIGANT, of Galveston, were the lowest bidders on Jan. 9 and were awarded the contract at $37,577. The lowest bid received on Dec. 24 was that of Horton & Horton, of Houston.

*MUSKOGEE, OKLA.—We are officially advised that the lowest bids received on Dec. 21 by the city for the construction of storm sewers in Districts Nos. 1, 2 and 3 were as follows: (a) Concrete alone 36-in., cement pipe, 36-in. and less, (b) same, vitrified pipe 36-in. and less; (c) brick alone 36-in., cement pipe 36-in. and less; (d) same, vitrified pipe, 36-in. and less: District No. 1: F. P. McCormick, (a) $165,836, (b) same; Heman Construction Co., Fullerton Bldg., St. Louis, Mo., (c) $67,325; Doyle & Swartz,

(d) $66,548; District No 2: Herman Construction Co., (a) $46,849, (d) $47,924; F. P. McCormick, (b) $46,912, (c) $54,936; District No. 3: F. P. McCormick, (a) $70,379, (b) same, (c) $81,649, (d) same. L. B. Kinsey is City Engr.

*ANADARKO, OKLA.—See item under Water Supply and Irrigation.

SHAWNEE, OKLA.—The city has voted $120,000 of bonds for the construction of sewers. Frank P. Stearns is Mayor.

CORONA, CAL.—H. Clay Kellogg, Consult. Engr., Santa Ana, Cal., has been engaged by the Town Trustees to prepare plans for storm drains and a sewer. Estimated cost, between $100,000 and $150,000.

REDLANDS, CAL.—The lowest bid opened on Dec. 30 by the Board of City Trustees for the construction of the storm water ditch on Garden St. was that of Ernest Frenzall, at $23,291.

SAN FRANCISCO, CAL.—Bids are asked until 2 p. m., Jan. 27, by the Board of Public Works for the construction of the southerly portion of the East Potrero intercepting sewer. Robert J. Loughery is Secy. Bd.

BERKELEY, CAL.—The Council is considering the construction of a new storm water sewer system here.

ST. THOMAS, ONT.—Bids will probably be received about April 1 for the proposed septic tanks for the city sewage. The citizens on Jan. 4 voted to issue $40,000 of bonds for this work. James A. Bell is City Engr.; W. B. Doherty is City Clk.

HAMILTON, ONT.—The citizens on Jan. 4 voted in favor of issuing $65,000 of bonds for extending the Catherine St. and Ferguson Ave. sewers through the revetment wall and completing the new annex sewer system. E. G. Barrow is City Engr.

KINGSTON, ONT.—Bids are asked until noon, Jan. 28, by H. B. R. Craig, City Engr., for furnishing sewer pipe.

*TORONTO, ONT.—Bids will be received by registered post only by the Chairman of the Board of Control, until noon, Feb. 2, for the construction of section No. 3 of the high level intercepting sewer. Bids may be alternative for brick and concrete as called for in the revised specifications. The following is an approximate statement of the work required to be done: 1,972 lin. ft. of 7-ft. 6-in.; 2,419 lin. ft. of 7-ft. 9-in.; 1,556 lin. ft. of 8-ft.; 439 lin. ft. of 8-ft. 6-in., circular sewer, together with manholes, connections, etc. Joseph Oliver is Mayor and Chn. Bd. of Control.

GARBAGE DISPOSAL.

FORT STRONG (Boston post-office), MASS.—The contract for constructing the garbage crematory at Fort Strong, bids opened on Dec. 17, has been awarded to LEWIS & KITCHEN, of Chicago, Ill., at $3,800. Capt. R. H. Rolf is Const. Q. M., U. S. A.

NORFOLK, VA.—The following are the bids opened by the Joint Street Committee of the City Councils for the construction of a crematory with a capacity of at least 25 tons: Lewis & Kitchen, Chicago, six bids for various types of plants, $14,736, $13,847, $11,656, $10,477, $8,634, $7,958; time, 90 days. Morse-Bruiger Destruction Co., of New York, six bids, $7,300 to $4,400; K. P. D. Sanitary Garbage Destruction Furnace Co., of Philadelphia, four bids, $3,500 to $5,100, 90 days; the Dixon Engineering & Construction Co., of Toledo, Ohio, four bids, $7,373 to $6,090; buildings for same, $3,150 to $2,520; DeCarle Incinerator Co., of Minneapolis, Minn., $21,750.

ASHLAND, OHIO.—Bids will be received until Jan. 25 by the Village Clerk for gathering, hauling away and disposing of garbage for a period of one year, from Feb. 1, 1909. Jacob Cahn is Mayor.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—George A. Hibbard, Mayor, has approved a loan order authorizing the expenditure of $69,000 for the extension of Hyde Park Ave., West Roxbury.

BOSTON, MASS.—Bids are asked by the Metropolitan Park Commission until noon, Jan. 25, for grading Winthrop Parkway, from Eliot Circle to Leverett Ave. The estimate of the work is approximately as follows: 500 cu. yds. of earth grading and 45,000 cu. yds. of filling material. John R. Rablin is Engr.

HARTFORD, CONN.—Plans for state road work have been received at the office of the State Highway Commissioner, as follows: From J. E. Egan, Engr., 10,150 lin. ft. of main road, from Springfield, Mass., in the town of Stafford; from E. B. Harger, Engr., 5,500 lin. ft. on North Main St., Ansonia; from Daboll & Crandall, Engrs., 15,700 lin. ft. on New London and Lyme Turnpike in the towns of East Lyme and Waterford; from W. H. Knight, Engr., a section on the Goshen-Falls Village Road in the town of Goshen.

HARTFORD, CONN.—The Street Board has voted to pave Capitol Ave. from Park River to Laurel St. with granite blocks in the spring.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., Feb. 3, by Bird S. Coler, Boro. Pres., for regulating and paving with asphalt in a concrete foundation the roadways of several streets; also for regulating and grading, curbing and laying sidewalks in several streets and for grading a lot on the corner of Greenwood and Prospect Aves.

SYRACUSE, N. Y.—The Board of Contract and Supply opened bids on Jan. 11 for paving Kirkpatrick St., from Salina to Alvord St. John Young submitted the lowest bid at $3,608 for macadam and concrete curb and gutter.

ALBANY, N. Y.—The city proposes to expend about $125,000 for macadam, brick and granite pavement and sidewalks. Walter Mellus is City Engr. Isidore Wachsman is Clk. Bd. Contract and Supply.

NEW YORK, N. Y.—W. J. Fitzgerald, 547 West 45th St., was the lowest bidder on Dec. 30, at $14,976, for paving Varick and White Sts. with granite blocks for the Borough of Manhattan. John F. Ahearn is Boro. Pres.

ELIZABETH, N. J.—Bids will be received by the City Council until 8:30 p. m., Feb. 1, for the construction of a sidewalk on Chilton St., from Sayre to Orchard St. N. K. Thompson is St. Comr.

BAYONNE, N. J.—The Council has passed an ordinance for the improvement of 37th St., from Ave. A to Ave. E, by paving with asphalt.

HILLSDALE, N. J.—H. B. SPROUL, of Binghamton, N. Y., has been awarded the contract for macadamizing and grading in Hillsdale Township at $35,897. William W. Banta is Town Clk.

JERSEY CITY, N. J.—We are officially advised that the J. F. SHANLEY CO., 26 Exchange Pl., Jersey City, has been awarded the contract by the Board of Street and Water Commissioners for improving Randolph Ave., 1,814 sq. yds. of brick pavement. Bids were opened on Jan. 11. George T. Bouton is Clk. Bd.

FLEMINGTON, N. J.—The Board of County Freeholders have received bids for the construction of the macadamized road from Flemington to Pleasant Run, a distance of about six miles. Sixteen bids were received. The contract has been awarded to VAN KEUREN & SON, of Newark, at $39,887. The other bidders were: John H. Hurley, Trenton, $60,358; Richards & Gaston, Somerville, $43,949; Daily Construction Co., Flemington, $52,595; ;W. S. Swackhammer & Co., German Valley, $50,000; John Ginder, Trenton, $47,909; George M. Frech, Somerville, $46,599; A. B. Hager & Co., Rutherford, $58,125; George K. Crouse and J. K. Jenson, Perth Amboy, $68,112; John McNabb, Bound Brook, $48,451; Delaware River Quarry & Construction Co., Lambertville, $47,081; E. C. Humphrey, Hackensack, $50,-084; Miles Tighe Construction Co., Easton, $52,896; Salmon Bros., Stanhope, $53,397; Monmouth Contracting Co., Red Bank, $53,-982; Bushkill Quarry & Construction Co., Easton, $46,919. The contract calls for the road to be completed by Oct. 15, 1909. The road will connect with the stone road recently completed from the Somerset County line through Whitehouse to a point near Pleasant Run.

SPRING CITY, PA.—The Borough has decided to pave Mawr St. from Bridge to Chestnut Sts. Estimated cost, $15,000.

JENKINTOWN, PA.—MORRIS W. WOLFF, of Glenside, Pa., has secured the contract for constructing about three miles of streets throughout the Baeder Farms, north of the borough line of Jenkintown, and on the west side of York road, at $55,000.

NEW CASTLE, PA.—C. H. Milholland, City Engr., has prepared plans for paving 30,000 sq. yds. on Elm St., on concrete base, with 1,000 lin. ft. of sandstone curb.

PHILADELPHIA, PA.—Bids were opened on Jan. 13 by George R. Stearns, Dir. Pub. Wks., for resurfacing country roads. The bids per square yard follow: EDWIN H. VARE, Betz Bldg., Philadelphia, for 1½-in. stone, with tarvia (oil) finish, to insure a more durable and smoother surface, 73 cts.; for same size stone without tarvia, 59 cts.; for ¾-in. stone and screenings, 19 cts. (awarded contract); David McMahon, Main and Chelten Aves., Philadelphia, 76, 56 and 25 cts., respectively; Cunningham Paving & Construction Co., 71, 63 and 29 cts.; R. P. Benzis, 80, 60 and 28 cts.; American Paving & Construction Co., 91, 68 and 50 cts.; Mack Paving & Construction Co., no bid, 60 and 60 cts.

The following bids on contractors' specifications for resurfacing with 1½-in. stone and oil also were submitted: David McMahon, 87 cts. and 73 cts., according to the character of oil used; Cunningham Paving & Construction Co., 74 cts.; American Paving & Construction Co., 91 cts.; Mack Paving & Construction Co., 95 cts. It is estimated that the work to be done under this contract will cost about $100,000.

BALTIMORE, MD.—The State Geological Survey, Walter W. Crosby, Ch. Engr., contemplates expending $250,000 during this year for road construction, provided various counties appropriate a similar fund, including $50,000 on the Washington and Baltimore Boulevard, now about two-thirds completed.

TOWSON, MD.—Baltimore County will appropriate about $300,000 this year for roads and bridges. Henry G. Shirley is Roads Engr.

CHATHAM, VA.—Bids are asked until Jan. 25 by Pittsylvania County for constructing about six miles of macadam road.

NOTTOWAY, VA.—Bids are asked until Jan. 26 by the county for the construction of macadam road. P. St. J. Wilson is State Highway Comr., Richmond, Va.

COLUMBIA, S. C.—The City Council has appropriated $165,700 for street work as follows: Paving, $81,700; sewers, $3,000; maintenance of streets, $21,000. A. W. Edens is City Engr.

ROME, GA.—The Board of Public Works has decided to pave Broad St. solidly and dispense with park for distance of 54 ft. north of the property line.

MOBILE, ALA.—The Board of Public Works contemplates the paving of Davis Ave. from Claiborne to Wilkinson Sts.

LAFAYETTE, LA.—The City has decided to lay cement sidewalks here.

NEW ORLEANS, LA.—The City Council has awarded contracts for paving as follows: BARBER ASPHALT PAVING CO., 205 Chartres St., Octavia, Carondelet, Scott, South Solomon and South Pierce Sts., with asphalt; ETTA CONTRACTING CO., LTD., Bienville and Dryades St., with granite block; W. H. DOUGLAS, South Franklin and Soniat Sts., with bitulithic; SOUTHERN BITULITHIC CO., Hibernia Bank Bldg., Esplanade Ave., with bitulithic; R. S. BLOME & CO., Chicago, Ill., Cortez St., with granitoid.

GREENVILLE, TENN.—The Green County Court has authorized the issuance of $150,000 of bonds to complete the work of grading and macadamizing roads.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., Jan. 30, by the County Commissioners, William F. Black, Clk., for the grading, draining and improving of York Road from Wooster Pier to Royalton Road in Parma and Royalton Townships. A. B. Lea is County Surv.

BUCYRUS, OHIO.—F. L. Neiderheiser, City Engr., has estimated the cost of paving Galion St. at $18,000.

JEFFERSON, OHIO.—The Commissioners of Ashtabula County have voted an issue of $34,000 of bonds for improving the highway between Brownsville and South New Lyme, a distance of four miles.

YOUNGSTOWN, OHIO.—JAMES McCARRON was awarded the contract for paving West Ave., between Marshall St. and West Rayen Ave. by the Board of Public Service on Jan. 8 at $13,306. F. M. Lillie is City Engr.

LORAIN, OHIO.—Bids will be received by the Board of Public Service until noon, Jan. 23, for furnishing necessary labor and material for the construction of the sidewalks and crosswalks that become delinquent during 1909.

INDIANAPOLIS, IND.—Bids will soon be asked by the Board of Public Works for paving, curbing and otherwise improving portions of the following streets: Sanborn, with brick; Alford, cement walk and curb; Lowell, bitulithic, brick gutters, curb; 37th, with gravel roadway, brick gutters, cement sidewalk and curb; Georgia, brick roadway, cement curb. Blaine H. Miller is City Engr.

DELPHI, IND.—Bids will be received by M. G. Haun, County Audr., until noon, Feb. 1, for grading, graveling or macadamizing, draining and otherwise improving highways.

FRANKFORT, IND.—Bids will be received by the Board of County Commissioners of Clinton County until 2 p. m., Feb. 4, for constructing seven gravel roads. C. F. Cromwell is County Audr.

VINCENNES, IND.—The Board of Public Works has ordered the improvement of Buntin St. with concrete sidewalks and stone curbing, the improvement of Eleventh St. and the grading of the square from Crane to Willow Sts.

CADILLAC, MICH.—The Board of Public Works has been directed to prepare plans, specifications and estimates for grading, claying, graveling, grading and macadamizing Pine and Lincoln Sts.

FOND DU LAC, WIS.—Bids will be received by the Board of Public Works about Feb. 10 for 15,000 yds. of cement paving on Park Ave., 15,000 yds. of cement paving on Doty St., 15,000 yds. of cement paving on North Main St., 10,000 yds of asphalt paving on Marr St., and 8,000 yds. of asphalt paving on Portland St. E. W. Clark is Mayor.

DAVENPORT, IOWA.—It is proposed to grade, pave and curb the following streets: Ripley St., brick, estimated cost, $10,000; Sylvan Ave., mineral rubber, estimated cost, $5,719; Rusholme St., asphalt, estimated cost, $2,315; Warren St., brick, estimated cost, $3,039.

DULUTH, MINN.—SWAN HOLQUIST was awarded the contract by the city on Jan. 7 for grading and bridging East Second St., between Dawson and Hudson Aves., at $7,516.

TOPEKA, KAN.—Plans are being prepared for the construction of about 60 blocks of 2-course block pavement on sand foundation, with combined cement curb and gutter. C. B. Burge is City Clk.

ATCHISON, KAN.—The City Council has adopted resolutions providing for the paving of Riley, Spring and Third Sts., with about 8,540 sq. yds. of brick paving and 5,800 lin. ft. of cement curb. Charles A. Hawk is City Clk.

ST. LOUIS, MO.—Bids are asked until Feb. 5 by the Board of Public Improvements for paving various streets and alleys. Estimated cost, $122,285. W. B. Dryden is Secy. Bd.

HOBART, OKLA.—The City Council has awarded the contract to the WARNER-QUINLAN PAVING CO., of Syracuse, N. Y., at about $175,000 for 47,000 sq. yds. of Natural Lake asphalt paving, 8,000 lin. ft. 30-in. concrete curb and gutter, 4,000 ft. 30-in. single concrete gutter, and 4,000 ft. concrete curb, 6 x 8 x 24 ins. List of bidders noted on Jan. 14. Bids were opened on Dec. 30. P. E. Noble is City Engr.

TACOMA, WASH.—The contract for grading Sixth Ave. through Fletcher Heights addition has been awarded to A. MATHEWSON by the Commissioner of Public Works at $10,219.

EVERETT, WASH.—Bids have been opened by the Board of Public Works for the South Park improvement project, and ELLISON & THORSVIG, the lowest bidders, have been awarded the contract, at $13,810.

SEATTLE, WASH.—Bids are asked by the city until Jan. 22 for the following street improvements: Washington St. and other streets, asphalt paving, $10,000; Harrison St., and other streets, planking, $7,300; 14th Ave., N. W., and other streets, grading, $4,-400. R. H. Thomson is City Engr.

R. H. Thomson, City Engr., has estimated the cost of street improvements as follows: East 65th St. and other streets, grading, $20,300; Madison St., from Third Ave. to Ninth Ave., paving, $6,000; South and West Green Lake Boulevard and other streets, grading, $23,600.

*OLYMPIA, WASH.—Bids will be received by the city until Feb. 1 for constructing about 17,000 sq. yds. of vitrified brick or creosoted wood block pavement; 11,500 sq. yds. of concrete sidewalks; 13,000 lin. ft. of concrete curb. Work to begin May 1, 1909. J. R. Dever is City Clk.

PASADENA, CAL.—The improvement contracts h[ave] by the City Council: To G[EO] for improving El Molino [Ave.] THOMPSON & DONTANV[ille] ing Cedar St.

*WHIPPLE BARRACKS (P[ost] office), ARIZ.—Bids are a[sked] P. Williams, Acting Q. M., Feb. 15, for construction [of] around and from eleven sets [of] ters to proposed main wa[ter] racks, Ariz.

WALLACE, IDAHO.—Ab[out] be expended for concrete p[ave]

MANUFACTURING

MALDEN, MASS.—The C[ompany] Co., M. M. Converse, Pres., to the ABERTHAW CONS[TRUC]TION CO., 8 Beacon St., Boston, for fireproof building in Malden will be erected next to the B[oston] Western Division tracks, n[ear] Station. The floors and in[side] and stairs will be of reinforced exterior columns and roof tru[sses] steel and the walls of brick. tions for the building are ne[arly] completed.

FITCHBURG, MASS.—The C[ompany] has awarded a contract to W[ood] of Fitchburg, for the extens[ion] Mill, located near the corner Kimball Sts. The extensions [will] building three stories high thr[ough] it now is one story in part a[nd] in the remainder. When compl[eted] ing will be 147 ft. long and 50 [ft.] wide.

TORRINGTON, CONN.—We [are] advised that the Turner Seym[our] has let contract to the TORRINGTON BUILDING CO. for an addition [to] its plant.

NEW YORK, N. Y.—We are officially advised that plans have been prepared by Mortensen & Co., Archs. and Engrs., 401 West 24th St., for a 3 and 4-story brick, stone and concrete ice plant, 50 x 200 ft., to cost $70,000; equipment, $140,000. The plant will be built by the Seventieth Street Hygeia Ice Co., 37 Wall St., on 70th St., east of Ave. A. JOHN H. DEEVES & BRO., 102 Park Ave., have been awarded contract to construct the plant.

Ross & McNeil, Archs., 39 East 42d St., advise us that estimates are being taken by Kohler & Campbell, Lessees, 50th St. and Eleventh Ave., for a 6-story brick factory, 83.6 x 94.8 ft., to be built for W. W. Astor, 23 West 26th St. The building will cost about $40,000 and will be erected at 614-624 West 51st St.

CARTERET, N. J.—Dr. F. H. Hirschland, 60 Wall St., New York, advises us that the Goldschmidt Detinning Co. has been organized with a capital of $3,000,000, and the following officers: William T. Graham, Pres.; Dr. F. H. Hirschland, Vice-Pres. and Gen. Mgr.; R. H. Ismon, Treas.; Hubert E. Rogers, Secy. The directors include E. L. Marston, Edward L. Ballard, W. T. Graham, 447 West 14th St., F. S. Wheeler, L. A. Wells, Dr. F. H. Hirschland, E. Stutz, Hubert E. Rogers and Dr. Karl Goldsmith. The capital stock will consist of $1,000,000 7% cumulative preferred stock and $2,000,000 common. The process of detinning with chlorine will be used by the company's plants. The expectations are that the company will have two plants in the United States with a capacity of from 70,000 to 75,000 tons a year of tin scrap. The company has acquired ten acres of water front property on Staten Island Sound, New York Bay, near Carteret, where it is arranging to erect a detinning plant with a capacity of approximately 30,000 tons of tin scrap per year. Later, it is contemplating to erect a detinning plant in the West with a like capacity. The buildings will be built principally from German plans with necessary changes to conform with local regulations. The plant will be started as soon as weather permits and will be in operation probably in October.

TARENTUM, PA.—Contracts are being let for erection of the plant of the West Penn Steel Co., at Tarentum. The West Penn Rys. Co. will construct a switch to the plant and work on the new plant will be started at once. The plant will cost about $500,000, and will comprise four large buildings. The open hearth mill will be in a building 75 x 140 ft. and will have two 15-ton electric cranes and an 80-ton furnace. The sheet mill will occupy a building 80 x 384 ft. and will house three finishing mills and the roughing mills. There will be three 30-in. bar and billet mills with annealing and heating furnaces. An annex, 50 x 384 ft. will be used for a shipping department. The officers of the company are J. W. Burdick, Pres.; John McGinley, Vice-Pres. and Gen. Mgr.; Arthur Over, Secy. and Treas. Among the men secured to take charge of the various departments are Charles Nicholas, Supt. of the sheet mill; John Stanley, Supt. of the open hearth and bar mills; Ira Schoff, Master Mechanic; Lynn Galbraith, Ch. Electrician; W. J. Ober, Metallurgist, and W. F. Conklin, Master Millwright. It is expected the plant will be partly completed by early spring and employ about 500 men at the beginning.

CHARLOTTE, N. C.—A company, with a capitalization of $1,000,000, is to operate the Selma Cotton & Woolen Goods Mill. Construction of the plant will be begun soon. B. Frank Mebane is interested.

We are advised that the Chadwick-Hoskins Co. will not construct a waste mill, as reported.

HARDEN (Highshoals post-office), N. C.—O. D. Carpenter & Son, operators of the Harden Mills, Harden, N. C., are reported to be planning an installation of 4,000 spindles. Their plant has an equipment of 4,100 ring spindles, 2,000 twisters, etc., producing skein yarns.

BELMONT, N. C.—W. J. Willett, of Cooleemee, N. C., is planning to build a cotton mill of 3,000 spindles at Belmont, N. C. He is stated to have purchased the site.

MAXTON, N. C.—**The Maxton Mfg. Co., J. J. Kincaid, Mgr., will establish a veneering plant. The company will erect a 1-story building, 50 × 100 ft., of mill construction, to cost $1[illegible]. Capacity, about 20,000 ft. veneer daily. Bids for machinery to be received until March 1.**

SAVANNAH, GA.—**James G. Nelson and associates are reported to have organized the Savannah [illegible] & Storage Co., with a capital of $25,000. It is their intention to erect a plant 50 × [illegible] ft., with one or two stories.**

ATLANTA, GA.—**D. A. McDuffie, Arch., is preparing plans for a 3-story and basement factory, to cost $34,000, for J. R. Smith.**

PATTERSON, LA.—**It is reported that the F. B. Williams Cypress Co. will erect a plant to cost $100,000. Contract will be let in about [illegible] weeks.**

CHICAGO, ILL.—**We are officially advised that Eugene J. McVoy, Pres. of the McVoy Sheet Metal & Tin Plate Co., has secured a site on West 36th and Morgan Sts., on which he intends erecting a warehouse and manufacturing building to cost $20,000. The building will be 87 165 ft., one story high, with steel, concrete and cement floors, electric motors, electric crane and steel tank. Contracts will be let at once. Postel & Marhler, Marquette Bldg., are Archs.**

A factory which will cost between $40,000 and $50,000 is to be erected by th Common Sense Novelty Co. at the corner of Montana St. and Sheffield Ave. The site is 118 × 113 ft.

ST. LOUIS, MO.—**The Campbell Glass & Paint Co., Main and Gratiot Sts., is having plans prepared by Baker & Knell, Archs., Odd Fellows Bldg., for structure to replace plant burned in October. The building will have four stories and basement, 125 × 83 ft.; 40,000 sq. ft. of floor space, and will cost about $50,000.**

The M. Kahn Glass Co., Twelfth and Walnut Sts., has leased a 7-story building and will expend about $25,000 for remodeling and equipping for manufacturing glass. The department for manufacturing mirror plates, beveling and art glass will be increased. Contract for improvements has been awarded to JAMES BLACK MASONRY & CONSTRUCTION CO., Wright Bldg., St. Louis. W. Levy, Wright Bldg., St. Louis, is Arch.

KANSAS CITY, MO.—See item under Light and Power Plants.

DENISON, TEX.—The Denison Cotton Mill Co., Denison, Tex., is considering the erection of a cotton warehouse and is reported stood to be planning the installation of spindles in order to increase productive capacity. The company operates 13,000 ring spindles, 4,600 twister spindles, 200 looms, etc., producing cotton duck and employing 350 persons.

LOS ANGELES, CAL.—Thain & Williams, 254 South Broadway, have completed plans for a 3-story reinforced concrete factory building to be erected for the Los Angeles Creamery Co., at Twelfth St. and Towne Ave. Estimates are being taken. Structure will be 162 × 84 ft., the outside walls will be faced with tile, brick and translucent glass; reinforced concrete floors and roof. Adjoining the main building will be a 2-story office building on the north, 65 × 58 ft. and a machinery and boiler room, 40 × 65 ft. On the south and east sides at the top of the first story will be a 20-ft. covered canopy of heavy steel frame.

PORT ARTHUR, ONT.—The contract for the new house of the Thunder Bay Elevator Co. has been let to BARNET, McQUEEN CO., of Fort William, Ont. The contract price is $550,000, which includes the cost of site and all trackage. The capacity of the elevator will be 1,500,000 bushels, and it will be able to unload 200 cars every ten hours, and to load into vessels at the rate of 50,000 bushels an hour. It will have three unloading tracks, each with a capacity of three cars, and will have nine interlocking pits, each with a capacity of 2,000 bushels. The tanks will be reinforced concrete. The contract calls for the completion of the whole plant ready for operation on Sept. 15. The officers of the Thunder Bay Elevator Co. are: W. H. McWilliams, Pres.; G. R. Crowe, Vice-Pres.; Clarence Piper, Secy.-Treas.

MEDICINE HAT, ALTA.—Warren Overpack, of Iowa, is interested in a sewer pipe industry to cost $150,000 including plant and buildings.

MISCELLANEOUS CONTRACTS.

WOODEN PONTOONS.—Mobile, Ala.—Bids will be received Feb. 1 by Maj. H. Jervey, Corps Engrs., U. S. A., Mobile, for constructing 61 wooden pontoons.

PONTON WAGONS.—Washington, D. C.—Bids are asked until noon, Feb. 9, by Lieut.-Col. Langfitt, Corps Engrs., U. S. A., Washington Barracks, for furnishing 40 ponton wagons.

*REPAIRING PIER.—Frankfort, Mich.—Bids are asked by Col. M. B. Adams, Corps Engrs., U. S. A., Grand Rapids, Mich., until 3 p. m., Feb. 16, for repair of South Pier at Frankfort.

DITCH.—Anoka, Minn.—Bids were received on Jan. 9 by A. A. Caswell, County Audr., for constructing Ditch No. 49, requiring 83,000 cu. yds. excavation. Estimated cost, $12,975. The contract has been let to J. J. HANKENSON, Glencoe, Minn., at 9 cts. per cu. yd.

SALE OF STEAMER.—Washington, D. C.—Bids are asked until noon, Feb. 10, by H. L. Satterlee, Acting Secy. of the Navy, Washington, for the purchase of the U. S. S. "Iowa." Appraised value, $5,800.

TIPPLE, TRESTLE.—Johnstown, Pa.—The WM. B. SCAIFE & SONS CO., Pittsburg, Pa., has received a contract from the Maryland Coal Co. for a steel tipple and trestle to be erected at St. Michael, near Johnstown, Pa.

CULVERT.—Marshalltown, Iowa.—Bids will be received by the County Auditor until Feb. 1 for constructing concrete culvert on 13th St. Cost, about $2,500. Plans on file with County Auditor, also with C. A. Baughman, City Engr.

REPAIRING PIER.—Philadelphia, Pa.—Bids will be received until Jan. 25 by John C. Grady, Dir. Dept. of Wharves, Docks and Ferries, for furnishing material and making repairs to the Chestnut St. pier and clearing site for same.

*PIER, DREDGING.—Milwaukee, Wis.—Bids will be received by Maj. W. U. Judson, Corps Engrs., U. S. A., until 2 p. m., Feb. 12 for building reinforced-concrete caissons and pile pier, removing old pier and dredging at Milwaukee Harbor.

CANALS AND LEVEES.—Fayette, Miss.—Bids are asked until Feb. 1 by the Commissioners of the Gum Ridge Drainage District for the construction of the system of canals and levees for the district. There will be about 140,000 cu. yds. of work.

DREDGING.—Philadelphia, Pa.—Bids are asked by J. C. Grady, Dir. Dept. of Wharves, Docks and Ferries, until noon, Feb. 1, for dredging docks and bulkheads in the Delaware and Schuylkill Rivers, including shoals adjacent or near any pier, during the year 1909.

*POWDER HOISTS.—Washington, D. C.—Bids were received on Dec. 31 by Lieut.-Col. Frederick V. Abbot, Corps Engrs., U. S. A., for furnishing and delivering powder hoists. The contract has been let to the ATLANTA MACHINE WORKS, King and Hunter Sts., Atlanta, Ga., at $63,141.

BORINGS.—Philadelphia, Pa.—Bids are asked until noon, Feb. 1, by John C. Grady, Dir., Dept. Wharves, Docks and Ferries, for borings necessary to show the nature of the Delaware River bottom, on the site of the proposed Dock St. and Vine St. piers, between the bulkhead line and Port Wardens' line (Delaware River front).

METAL WORK.—Mobile, Ala.—Bids were received on Jan. 4 by the Light-House Engineer, Mobile, for furnishing materials and labor of all kinds necessary for the construction and delivery of the metal work for Galveston Jetty Light Station, Tex. Contract was awarded to the CHAMPION IRON CO., Kenton, Ohio, at $8,595.

DRIVING TUNNEL.—Shamokin, Pa.—Bids will be received until Jan. 25 by the Mineral R. R. & Milling Co. for driving a tunnel from the No. 4 seam to the No. 2 seam north in No. 1 slope level at the Cameron colliery, total distance about 600 ft. to be driven by machine work, the company to furnish steam and compressor. E. A. Rhoads, Supt.

DRAIN.—Galveston, Tex.—Bids were received on Jan. 9 by the Board of City Commissioners for constructing a reinforced concrete drain on Ave. M. A. T. Dickey is City Engr. Approximate quantities: 150 tons reinforcing metal, 3,700 lbs. cement, sand, stone forms, etc. The work is in wet earth and quicksand, about 8 ft. cutting. Contract was let to HEFFRON & FALLIGANT, Galveston, at $37,577.

*DREDGING.—Mobile, Ala.—Bids were received on Jan. 15 by Maj. H. Jervey, Corps Engrs, U. S. A., for dredging in Mobile Harbor. Following are the bids received: Southern Dredging Co., Mobile, 10½ cts. per cu. yd.; John Anderson, Gulfport, Miss., 10¾ cts.; North American Dredging Co., Galveston, Tex., 10.64 cts.; Bowers Southern Dredging Co., Galveston, Tex., 9.95 cts. (recommended for acceptance).

DRAINAGE.—Velasco, Tex.—Bids will be received until Jan. 30 by the Board of Drainage Commissioners, Velasco Drainage Dist., at the office of E. P. Hoeffe, Velasco, for constructing drainage ditches, levees, revetment work, etc. The ditches to consist of approximately 63,000 cu. yds. levee, 148,900 cu. yds. revetment work the placing of about 160 piles and 540 cu. yds. of brush mattress. R. E. L. Stringfellow, Chn. of Bd.

DRAIN.—Urbana, Ill.—Bids were received on Jan. 15 by the Drainage Commissioners of Kankakee Drainage District in the County of Champaign, Ill., for furnishing, hauling and laying the following first-class farm drain tile: 2,223 ft. of 22-in. tile; 4,244 ft. 20-in. tile; 5,433 ft. 18-in. tile, 725 ft. 16-in. tile. Also backfilling the trench after the work has been received. Also building one bulkhead or retaining wall. William J. Day, Engr., Bement, Ill. The contract has been let to JAMES E. DAILEY, of Jackson, Ill., at $5,500.

DITCH.—Houston, Tex.—Bids were received by the Board of Drainage Commissioners of the Harris County Drainage District No. 1 at the office of George F. Horton, Drainage Engr., Houston, on Jan. 6, for the entire work or for any division or section thereof for approximately 350,000 cu. yds. of ditching, depth 4 to 5 ft., base 4 to 20 ft., with 1 to 1 slope. The folloiwng bids were received: Marsh Branch Ditching Co., Minneapolis, Minn., $58,000; F. B. ARPION, Grand Rapids, Wis., $52,172 (awarded contract); A. D. Wills & Son, Malden, Mo., $55,060; O. F. Taylor, Lamar, Colo., $71,800.

*BROKEN STONE.—New York, N. Y.—Bids are asked until noon, Feb. 9, by George Cromwell, Pres. Boro. of Richmond, for furnishing and delivering 12,000 tons of 1½ and ¾-in. broken stone and screenings of trap rock, or Staten Island syenite, in Stone Delivery District No. 1; for furnishing and delivering 8,000 tons of 1½ and ¾-in. broken stone and screenings of trap rock, or Staten Island syenite, and for furnishing and delivering 2,500 tons of 1½ and ¾-in. broken stone and screenings of trap rock, or Staten Island syenite, or extra hard limestone, in Stone Delivery District No. 2: for furnishing and delivering 12,500 tons of 1½ and ¾-in. broken stone and screenings of trap rock, or Staten Island syenite, in Stone Delivery District No. 3.

U. S. POSSESSIONS AND CUBA.

RAILWAY MATERIALS.—Panama. — See item under Railways.

SUPPLIES.—Panama.—Bids are asked until 10:30 a. m., Feb. 1, by the Isthmian Canal Commission, Washington, D. C. (under circular No. 488) for furnishing electric motors, ranges, refrigerators, hose, packing, belting, manila rope, cotton waste, cotton duck, valves, tackle blocks, rivets, nuts, nails, wire netting, hammers, wrenches, chisels, picks, coal scoops, door bolts, hose nozzles, hose clamps, machinist's clamps, etc.

Bids are asked until 10:30 a. m., Feb. 8 (under circular No. 490), for furnishing wire screening, condenser tubes, cylinder cocks, coupler pockets, manganese steel, anchor winches, anchors, chain, chain swivels, anchor shackles, switchboard and electrical attachments, wire, hose strainers and nozzles, cross valves, rubber valves, adhesive tape, lead melting furnace and ladles, pipe, derrick, pipe cutting machine, post and twist drills, taps, reamers, stocks and dies, pipe cutters, wrenches, vise, hammers, punches, chisels, groovers, cant hooks, tool handles, files, screws, cotters, staples, tacks, snatch blocks, wire rope, clips, etc.

CIVIL SERVICE EXAMINATIONS.

SCIENTIFIC ASSISTANT (MALE).—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Feb. 24 to secure eligibles from which to make certification to fill a vacancy in the position of Scientific Assistant, $720 a year, in the Bureau of Fisheries, and vacancies, requiring similar qualifications as they may occur. Age limit, 20 years. Application Form 1312.

LABORATORY AID.—Columbia, Mo.—The U. S. Civil Service Commission announces an examination on Feb. 24 to secure eligibles from which to make certification to fill a vacancy in the position of Laboratory Aid in Seed Testing (female), $600 a year, Bureau of Plant Industry, Columbia, Mo., and vacancies requiring similar qualifications as they may occur in the Department of Agriculture. Age limit, 17 to 25 years. Application Form 304.

SUPERINTENDENT OF CONSTRUCTION.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Feb. 3-4 to secure eligibles from which to make certification to fill six or more vacancies in the position of Superintendent of Construction of Public Buildings, Supervising Architect's Office, Treasury Department, at salaries ranging from $1,600 to $2,500 a year, and vacancies requiring similar qualifications as they may occur in that Department. Age limit, 20 years. Application Form 1312. Applications must be filed prior to closing hour on Jan. 23.

ENGINEER.—Fort Berthold, N. Dak.—The U. S. Civil Service Commission announces an examination on Feb. 17 to secure eligibles from which to make certification to fill a vacancy in the position of Engineer (competent to take care of pumping plant, tank house, etc.), $720 a year, Indian Service, Fort Berthold, N. Dak., and vacancies as they may occur. Salaries, $480 to $1,000 a year. The majority of the appointments, however, are made at salaries of $720, $840 and $900 a year. Age limit, 20 years. Application Form 1093.

Readers' Wants

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

STEAM TRAPS.—Burlingame, Cal.—Eric Wold writes us for information concerning the manufacturers of steam and radiator traps, and catalogs of the same.

CONCRETE MACHINERY.—Burlington, N. C.—H Morehouse Stephens writes us that he will soon be in the market for concrete machinery of all kinds and desires catalogs and information concerning the same.

ASPHALT REPAIR PLANT.—Harrisburg, Pa.—We are in receipt of a request from W. W. Caldwell, Commissioner Highway Dept., for the names of manufacturers of municipal asphalt repair plants.

VERTICAL ENGINE.—Buffalo, N. Y.—The Foundry Equipment Co., 245 Military Road, ask us to refer them to a manufacturer of vertical two-cylinder reversing engine, about 4½ × 4½, preferably of the enclosed type.

PUMP BUCKETS.—London, England.—The Scott Engel Co., Ormond House, 63 Queen Victoria St., advises us that they desire to learn the names of manufacturers of galvanized iron pump buckets; they also state that catalogs of other manufactures would be esteemed.

IRRIGATION PUMPING PLANT.—Wathena, Kan.—A. R. Bowman writes us for information and catalogs covering the equipment of a pumping plant for irrigation. The conditions include a fall of 20 or 25 ft. and the water will have to be raised about 45 ft.

TRADE CATALOGS.—Fort Worth, Tex.—We are in receipt of advices from the Texas Engineering Co. stating that they are desirous of securing catalogs and trade literature in connection with their general practice in civil and hydraulic engineering and contracting.

CEMENT MACHINERY.—Tulsa, Okla.—J. Robert Burnham, Box 152, states that he has been appointed consulting engineer of a cement plant to be constructed shortly and that he desires catalogs from concerns who manufacture cement-making machinery.

CONCRETE CONSTRUCTION.—Otis, Mass.—H. R. Sones writes us for trade catalogs covering concrete construction and the various tools and equipment used therein.

ROAD OIL.—San Juan, Porto Rico.—J. J. Jimenez, Supt. of Public Works, writes us for information concerning oil for treating macadamized roads.

INDUSTRIAL NOTES.

CO., announces that, on or about Feb. 1, 1909, it will remove its offices from Charleston, W. Va., to the Union Trust Bldg. Cincinnati, O. The company expects that this move will bring it in closer touch with the trade.

WM. B. SCAIFE & SONS CO., Pittsburg, Pa., have received from Spang, Chalfant & Co. contract for a large tonnage of structural steel work, in connection with the extensive additions which are being made to their tube plant at Etna, Pa.

AMONG RECENT HIGH DUTY pumping engine sales made by the Platt Iron Works, Dayton, Ohio, is the 6,000,000-gallon triple expansion engine for Muskegon (Mich.) and the 6,000,000-gallon horizontal type for Meridian (Miss.).

THE SUPERIOR PORTLAND CEMENT THE PARKER BOILER CO., Philadelphia, Pa., announces the receipt of the following recent orders: One 153-HP. boiler for Pilgrim Laundry Co., Philadelphia, Pa.; two 122-HP. boilers for Southern Pacific Hospital, San Francisco, Cal.; two 234-HP. boilers for Geo. W. Clayton College, Denver, Colo.

GULICK-HENDERSON & CO., Inspecting Engineers, Foundry Specialists and Chemists, with general offices at Pittsburg, Pa., have opened a Western office and laboratory in the Manhattan Building, Chicago, in charge of Mr. W. O. Collins, who is a new member of the firm. Mr. Collins was formerly a member of the firm of Collins & Stevens, making a specialty of inspection and general engineering work.

ON THE 15TH OF THIS MONTH the New York offices of the Stephens-Adamson Mfg. Co., of Aurora, Ill., manufacturers of conveying and transmission machinery, were removed to the new Hudson Terminal Building, at 50 Church St. Mr. Frank McWethy, who has had charge during the past two years, will return to the home office at Aurora to become Assistant Sales Manager. Mr. William Reinecke, formerly with the Robins New Conveying Belt Co., is to succeed him as Manager of the New York branch.

THE POWER SPECIALTY CO., 111 Broadway, New York, builders of the Foster superheater, mentions among recently closed contracts the following: American Wood Extract Co., several orders; Canal Lumber Co., Myers, Standard and Stearns Lumber Companies, Washington and California, separately fired units; Isthmian Canal Commission, 4,800 HP. in Keeler boilers; Philadelphia Navy Yard, 1,800 HP. in Edge Moor boilers; Boston Navy Yard, 900 HP. in B. & W. boilers and 700 HP. in A. & T. boilers; Oakland Gas & Electric Co., 6,000 HP. in McNaull boilers; Nichols Copper Co., 2,300 HP. separately fired unit.

THE ANNOUNCEMENT is made of the consolidation of the American Blower Co., of Detroit, with the Sirocco Engineering Co., of New York. All business will hereafter be transacted under the style and name of American Blower Co., with main offices at Detroit, Mich. The personnel of the management of the new company is indicative of its foremost position. Mr. James Inglis, the President, has been at the head of the American Blower Co.; Mr. William C. Redfield, the Vice-President, was President of the Sirocco Engineering Co.; Mr. Charles H. Gifford, the Treasurer, was until about a year ago General Manager of the B. F. Sturtevant Co., and has had perhaps the longest experience of any official at present engaged in this line; Mr. Still, the Secretary, is well known especially among engineers, as Chief Engineer of the American Blower Company.

THE INDEPENDENT PNEUMATIC TOOL CO., Chicago, Ill., states that at the annual meeting of the stockholders of the company, held at Jersey City, N. J., the following Directors were elected: Messrs. James B. Brady, New York City; W. O. Jacquette, New York City; John P. Hopkins, Chicago; M. S. Rosenwald, Chicago; James J. McCarthy, Chicago; S. Florsheim, Chicago; John M. Glenn, Chicago; John D. Hurley, Chicago; John R. Turner, Jersey City, N. J. At the annual meeting of the Directors just held in Chicago, the following officers were elected: James B. Brady, President; W. O. Jacquette, 1st Vice-Pres.; John D. Hurley, 2d Vice-Pres.; A. B. Holmes, Secy. and Treas. The annual report shows that the company is in excellent financial condition, and that during the quarter ending December 31, 1908, 40% more business was transacted than during the corresponding period of 1907.

THE MAC ARTHUR BROTHERS CO., Chicago, Ill., has recently closed a contract with the Eastern Colorado Power Co. for the construction of the Barker Reservoir Dam near Boulder, Colo. The dam is to be of cyclopean concrete masonry, resting on a solid rock bottom and sides, and is located across Middle Boulder Creek at a point about 17 miles westerly from the city of Boulder, and 1½ miles east of the village of Nederland. The length of the dam at the surface of the creek is to be about 250 ft., the length of crest is to be about 625 ft., and the height of the dam above bed rock is about 180 ft. The total amount of cyclopean masonry entering into the dam will amount to approximately 140,000 cubic yards. The power company has done considerable development of preliminary work on this dam, and has built a railroad about 2½ miles from a siding on the C. & N. W. Railroad up to the dam site. MacArthur Brothers expect to begin work about Feb. 1 and will complete the work before Jan. 1, 1910.

THE MARQUETTE CEMENT MFG. CO., of Chicago, announces that it will make improvements to its plant at La Salle, Ill., by the addition of machinery and equipment which will increase the total investment to over $2,000,000. The improvements will increase the output 50% over that of last year, the total capacity being 6,000 barrels daily. The plant was started 12 years ago with an output of 500 barrels per day. Mr. N. W. Duncan is President; T. G. Dickinson, Vice-Pres. and Gen. Mgr.; Wm. Dickinson, Sales Man. The offices are in the Marquette Bldg., Chicago.

THE CONVERSE RUBBER CO., recently organized, of which M. M. Converse is President, has placed a rush contract with the Aberthaw Construction Co., of Boston, for the construction of its fireproof building in Malden, Mass. The new building will

be erected adjoining the B. & M. Western Division tracks, near Edgeworth Station. The floors and interior columns, and stairs will be of reinforced concrete. The exterior columns and roof trusses will be of steel, and the walls of brick. The foundations for this building are nearly completed and the work is to be pushed through with all despatch.

THE BALTIMORE RETORT AND FIRE BRICK CO., Hull and Nicholson Sts., Baltimore, Md., announces that the services of Mr. E. L. Rieha, who is well-known to the gas fraternity, have been secured to assist Mr. L. N. Rancke in designing and constructing coal gas benches, with horizontal, inclined or vertical retorts, and other modern, economical constructions requiring high grade material.

THE LARGE NEW WORKS of the National Sanitary Mfg. Co., located at Salem, O., are equipped throughout with the "Kirkwood" system of fuel oil burning as manufactured by Tate, Jones & Co., of Pittsburg, Pa. Due to the peculiar topographical conditions, it is necessary to lift the oil to quite an elevation in order to reach the furnaces where it is used, yet so perfect is the system that but one side of their ordinary pumping system is required. Due to the uniform heat secured, the low cost of maintenance and the little care required, it is found to be most admirably adapted for this particular purpose. The Salem Co. manufactures high quality bath tubs and other sanitary articles.

THE WESTINGHOUSE MACHINE CO. reports the most important recent orders as follows: Metropolitan Street Railway, Kansas City, 15,000 KW.; Narragansett Electric Light Co., Providence, R. I., 7,000 KW.; Capitol Traction Co., Washington, D. C., 3,000 KW.; B. F. Goodrich, Akron, Ohio, 1,500 KW.; Tampa (Fla.) Elec. Co., 1,500 KW.; Colorado Springs Elec. Co., 1,000 KW.; Pressed Steel Car Co., McKees Rocks, Pa., 2,000 KW. In addition to the above, there are equipments of 1,000 KW. and under for the Portland Cement Co., Denver; Coronet Phosphate Co., Plant City, Fla.; Bronx Gas & Elec. Co., Westchester, N. Y.; Black Mills Traction Co., Deadwood, S. Dak.; Jacksonville Oil Mill Co., Jacksonville, Ala.; Fall Mountain Electric Light & Power Co., Bellows Falls Elec. Co., Bellows Falls, Vt.; Tide Water Oil Co., Bayonne, N. J.; City of Logansport, Ind., and Bristol (Tenn.) Gas & Electric Co.

THE H. W. JOHNS-MANVILLE CO., of New York, has recently placed on the market what is known as H-O pipe joint cement. This cement is put up in powder form and can be kept in stock indefinitely, as it does not dry out or deteriorate. In using it, the cement is mixed with either water or linseed oil, making it ready for use. The chemical properties of H-O cement are such that it expands after the joint is made up, thereby making a perfectly tight joint. It does not harden as does red or white lead and the joint made with it can be easily broken at any time without danger of breaking the fittings. The manufacturers claim that one pound of H-O cement, mixed with water, is equal to four pounds of the ordinaryready mixed cements, thus proving the economy of using this form. H-O cement has the additional advantage that it is not poisonous like lead cements and does not taint water.

THE FOLLOWING LIST of recent sales of fans, blowers and exhausters is issued by the Green Fuel Economizer Company, of Matteawan, N. Y. These fans are to be used for such purposes as mechanical draft, heating and ventilating, hot-blast drying, etc., and their number indicates that many mills and other plants are being put into shape in anticipation of manufacturing operations on a large scale: Grand Rapids Refining Co., Grand Rapids, Mich.; St. Joseph Railway, Light, Heat & Power Co., St. Joseph, Mo.; Public School No. 1, Oceanic, N. J.; J. Ruppert Brewing Co., New York City; S. S. White Dental Manufacturing Co., Princes Bay, S. I.; Atlantic Sewerage Co., Atlantic City, N. J.; New Bijou Theater Co., Atlanta, Ga.; Bigelow Carpet Co., Lowell, Mass.; American Mfg. Co., Brooklyn, N. Y.; Masonic Bldg., Somerville, Mass.; Lincoln School, Racine, Wis.; Draper Co., Hopedale, Mass.; Bartlett, Kuhn & Co., Terre Haute, Ind.; Peoples Gas & Electric Co., Burlington, Ia.; U. S. Navy Yard, Mare Island, Cal.; Abbott Packing Co., Carnegie, Pa.; I. E. Palmer Co., Middletown, Conn.; Stamford Rubber Supply Co., Stamford, Conn.; Elmer E. Irish, Boston, Mass.; First Ave. Brick & Tile Co., Evansville, Ind.; Turner Street School, Grand Rapids, Mich.; Esmond Mills, Enfield, R. I.; General Storage Battery Co., New York; Green County Asylum, Monroe, Wis.; Badger State Malt Co., Waterloo, Wis.; National Military Home, National Military Home, Ohio; Stauber Bros., Newark, N. J.; Preston Bros., Norwich, Conn.; Swift & Co., Charlotte, N. C.; Waterbury Castings Co., Waterbury, Conn.; First National Bank Bldg., Columbus, Ohio; Calumet & Hecla Mining Co., Calumet, Mich.; P. Nacey Co., Chicago, Ill.; Mitchell Motor Car Co., Racine, Wis.; Alabama State Normal School, Jacksonville, Ala.; Picatinny Arsenal, Dover, N. J.; New Jersey Zinc Co., Franklin Furnace, N. Y.; Weil & Eisendrath, Chicago, Ill.; Peerless Laundry, Duluth, Minn.; Newbury Mfg. Co., Monroe, N. Y.; Monarch Portland Cement Co., Humboldt, Kan.; J. Griffin, Ltd., Edmonton, Alberta, Canada; Wallace Bros. Co., Lafayette, Ind.; Yawman & Erbe, Rochester, N. Y.; M. & W. Nixon Paper Co., Manayunk, Pa.; O. J. Poston, Martinsville, Ind.; Carnegie Steel Co., Waverley, N. J.; Davis Mills, Fall River, Mass.; Merchants Ice & Cold Storage Co. (16 fans), Cincinnati, Ohio; Vesta Accumulator Co., Chicago, Ill.; Wageraw Bleachery, Hawthorn, N. J.; Warrentown Woolen Co., Torrington, Conn.; Public School No. 157, New York City; Lawton-Tallman Co., Flushing, L. I.; Toasted Corn Flakes Co., Battle Creek, Mich.; Youngstown Sheet & Tube Co., Youngstown, Ohio (4 orders); Oil City Boiler Works, New York; Textile Finishing Co., New Durham, N. J.; St. Joseph Infirmary, Atlanta, Ga.; Sayles Bleacheries, Saylesville, R. I.

For other Proposal Advertisements see pages 47, 48, of Advertisements and Construction News page 24.

MUNICIPAL POWER PLANT.

City of Lethbridge, Alberta, Canada.

Specifications, drawings and form of tender may be obtained from the Secretary-Treasurer, City of Lethbridge, Alberta, on and after the fifteenth day of January, 1909. The following are the sections issued.

A. Boilers and Accessories.
B. Economizer.
C. Feed Pumps.
D. Mechanical Draft.
E. Pipe Work and Valves.
F. Steam Turbine Generator.
G. Steam Engine Generator.
H. Re-erection of Steam Engines.
I. Condensing Sets.
J. Crane.
K. Switchboards, etc.
L. Motor Generators and Transformers.
M. Building Steel Work, etc.

Tenders on any or all of the above sections or any combination of the above sections will be received.

Tenders to be enclosed in a sealed envelope addressed "Tenders for Electric Plant," and to be delivered to the undersigned at the City Hall, Lethbridge, on or before the 1st day of March, 1909, and to remain open for acceptance for two (2) calendar months from that date.

Each tender must be accompanied by a certified check payable to the Secretary-Treasurer, of the City of Lethbridge for 10% (ten per cent.) of the amount of the tender, which will be returned to the tenderer, unless he fail to enter into contract for the work at the rate stated in the tender.

Plans and specifications may also be seen at the offices of Messrs. Smith, Kerry & Chace, Confederation Life Building, Toronto, and the Carnegie Public Library Building, Winnipeg, Manitoba. The lowest or any tender not necessarily accepted.

A deposit of $10.00 (Ten dollars) will be required for use of plans and specifications, which will be returned upon letting of contracts.

GEO. W. ROBINSON,
Secretary-Treasurer.

BUILDING.

Binghamton, N. Y.

Sealed proposals, endorsed "Proposal for Vegetable Store House—Construction" and "Proposal for Farmer's Cottage—Construction, including Heating, Plumbing and Electric Work," at the Binghamton State Hospital, Binghamton, N. Y., will be received by the State Commission in Lunacy, Capitol, Albany, N. Y., up to 3 o'clock p. m., on the 3d day of February, 1909, when the bids will be opened and read publicly.

Proposal for Vegetable Store House shall be accompanied by certified check in the sum of $500 and Farmer's Cottage in the sum of $300, and the contractors to whom awards are made will be required to furnish surety company's bond in the sum of $3,000 for Vegetable Store House and $1,500 for Farmer's Cottage. The right is reserved to reject any and all bids.

Drawings and specifications may be consulted and blank form of proposals obtained at the Binghamton State Hospital, Binghamton, N. Y., or at the office of the State Architect. Complete sets of plans and specifications will be furnished prospective bidders upon reasonable notice to, and in the discretion of, the State Architect, Franklin B. Ware, Albany, N. Y.

T. E. McGARR,
Secretary, State Commission in Lunacy.
Dated Albany, N. Y., January 15, 1909.

U. S. ENGINEER OFFICE, Milwaukee, Wis., January 14, 1909.—Sealed proposals for building reinforced-concrete caissons and pile pier, removing old pier and dredging at Milwaukee Harbor, Wis., will be received here until 2 p. m., February 12, 1909, and then publicly opened. Information on application. W. V. JUDSON, Major, Engrs.

U. S. ENGINEER OFFICE, 57 Park St., Grand Rapids, Mich., January 18, 1909.—Sealed proposals for Repair of South Pier at Frankfort, Mich., will be received here until 3 P. M., February 16, 1909, and then publicly opened. Information on application. M. B. ADAMS, Col., Engrs.

SEWERS.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
Incorporated.

Sealed proposals for the construction of sewers known as Walnut Street, Contracts No. 21 and No. 22, Clay Street Sewer, Contract No. 23, and St. Xavier St. Sewer, Contract No. 24, of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, February 5th, 1909.

The work will consist of about 5,460 feet of concrete and pipe sewers of sizes between 18 inches and 30 inches diameter, and including 315 cu. yds. of concrete. The depth of these sewers is from six to ten feet.

Plans and specifications may be seen at the office of the Commissioners.

Sealed bids should be properly endorsed with the name of the sewer and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

P. L. ATHERTON,
Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

SEWER EXTENSION.

City of Brantford, Ont., Canada.

Sealed tenders addressed to John Moffat, Chairman of the Board of Works, in care of the City Clerk, Brantford, Ont., Canada, will be received till 12 o'clock noon on Thursday, February 11th, 1909, for the furnishing and laying of about 2,250 feet of 12-inch extra strength sewer pipe and 635 feet of 12-inch cast-iron pipe, together with 11 manholes. Greatest cut, 32 feet. Average cut, 17½ feet.

Plans and specifications may be seen and instructions to bidders and forms of tender obtained at the City Engineer's Office.

Each tender must be accompanied by a marked cheque for 5 per cent. of the amount of the tender.

The lowest or any tender not necessarily accepted.

T. HARRY JONES,
City Engineer.
City Engineer's Office, Brantford, Ont., Canada, Jan. 18th, 1909.

SEWER.

Department of Works,
Oswego, N. Y., January 16th, 1909.

Sealed proposals will be received by the Department of Works until two o'clock p. m., Friday, January 29th, 1909, for the construction of a twelve-inch tile sewer in Mitchell Street from the east line of Ninth Street to the sewer in the center of Tenth Street, with the necessary manholes, catch basins and connections.

All in accordance with plans and specifications on file in the office of the Department of Works.

The Department reserves the right to reject any and all bids.

JOHN SMITH, Commissioner.

ERECTION OF STEEL.

Ft. Wayne, Ind.

Proposals for erecting steel for the Shoaff (9-story) Office Building, located in Ft. Wayne, Ind., will be received by William F. Stillwell, General Contractor of Lafayette, Ind.. until 12 o'clock noon, January 27th, 1909. Plans and specifications may be consulted at the office of the American Bridge Co., Pittsburgh, Pa.; American Bridge Co., Chicago, Ill.; F. B. Meade, Archt., Cleveland, Ohio; W. F. Stillwell, Ft. Wayne, Ind., and W. F. Stillwell, Lafayette, Ind.

The steel will be delivered on the ground with all work done on the same that is usually done away from the building. The contractor has all hoisting machinery he deems necessary for the erection of this steel which the subcontractor will be allowed to use upon reasonable terms. This contract will not be awarded to any one who cannot give undoubted references and security for the faithful performance of the work, and to indemnify the contra... for injuries which may be done to ... rson through the fault or negligence ... employees of the sub-contractor.

FORT MONROE, VA., ...ry 14, 1909. —Sealed proposals, in ... received until 10:00 A. ...te, will be 1909, for construction, h... bruary 15, electrical wiring and fix... plumbing, of Field Officers' Quarte... two sets roe, Va. Information on... Fort Mon- ders on proposals must... ation. Bid- manufacturer supplying ... name of of certified check $25 ... Deposit plans, specifications. U... ee return serves the right to acce... States re- or all bids or parts the... reject any R. TILTON, Captain and ... ERNEST Constructing Q. M. U. S. A.,

PROPOSALS FOR CONC... WALKS. Office Constructing Quarte... r. Pres- cott, Ariz., January 14, 190... oled pro- posals for construction of ... te walks around and from 11 sets of ... es quar- ters to proposed main ... Whipple Barracks, Ariz., will be ... ed here until 3.30 p. m., February ... 909, and then opened. Information ... shed on application. K. P. WILLIA... ist Lt. & A. Q. M.

TREASURY DEPARTMEN... Office of the Supervising Architect, ... shington, D. C., January 14, 1909.—Sea... proposals will be received at this of... until 3 o'clock P. M., on the 18th da... of Febru- ary, 1909, and then opened, for the construction complete of the U. S. Post Office at Greenville, Miss., in accordance with the drawings and specification... copies of which may be had at this offic... or at the office of the Postmaster at G... enville, Miss., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

Situations Wanted

CONCRETE ENGINEER, graduate Vienna Imperial University, highly recommended, experienced in design, estimation and construction of all kinds of reinforced work; buildings, bridges (also elastic and hinged arches), dams, etc., wants situation. Address "L. A. 3," Engineering News, New York. 3-1t

ENGINEER-SUPERINTENDENT open for engagement. Might contribute some capital. Twenty years' practical experience, heavy construction, foundations, large buildings, factories, bridges, viaducts. Thoroughly acquainted all trades, careful estimator, knows material market, has handled large contracts. General office experience. Executive ability. Address "O. A. 3," Engineering News, New York. 3-1t

Situations Open

WANTED.

Bridge and Structural Draftsman

In replying, describe education, experience, give references and state salary expected. Address "M. A. 3," Engineering News, New York.

Miscellaneous Wants

TO INVENTORS

A well established concern, in order to make better use of a world-wide organization, desires to secure a paying article to manufacture, either by purchase of the patent or by acquiring royalty license. Offers will be considered under the following conditions only:

(1) Drawings or models of the invention with detailed description and date of American and German patents to be given.

(2) Advantages over competing articles.

(3) Purchase price of patent or price of license to manufacture.

(4) A statement as to whether application for patent has been made in foreign countries and in which countries patents have been already granted. Address "H. L. 1286," care of Rudolph Mosse, Hamburg, Germany. 3-1t

ROAD TO SUBLET.

State Road in Tompkins County, New York, No. 681, known as Ithaca-Dryden Road, Section No. 1, Macadam Road, 5 23/100 miles in length. For particulars, address Contractor,

PATRICK D. CONLEY,
Ithaca, N. Y. 3-1t

FOR SALE

FOR SALE OR RENT

600 tons of

U. S. Sheet Steel Piling

16 ft. to 32 ft. long; in A1 condition. Address "W. A. 25," Engineering News New York. 3 4t